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A

DIRECTORY

OF NAMES, PENNANT NUMBERS AND ADDRESSES
OF ALL MEMBERS OF THE

Ship Masters' Association

of the Great Lakes

Also a List of Vessels of the Great Lakes, American and Canadian, with Names and Addresses of Owners.

Other Information of a Miscellaneous Nature of Interest in Shipping Circles on the Great Lakes.

APRIL, 1915

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J. A. Holmes, Grand Financial Secretary, 307 Superior Ave.
CLEVELAND

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NORWALK, OHIO

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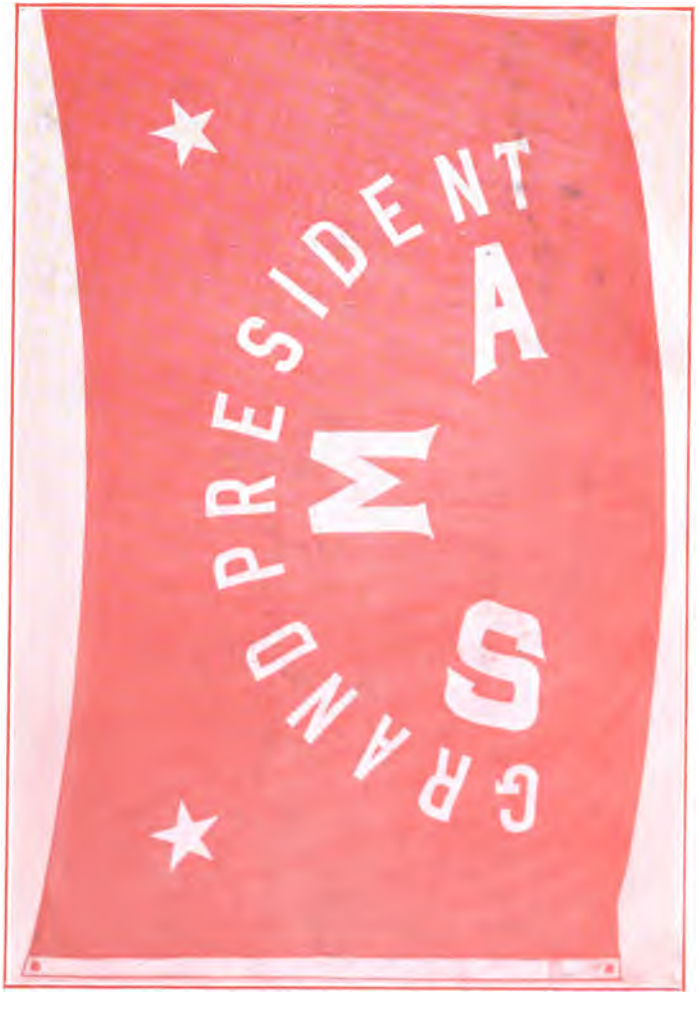
1915



GRAND PRESIDENT'S FLAG

Zuttle
6-10-33

A. C. SMITH, Grand President

25th Annual Meeting of the Grand Lodge S. M. Association, at the White House, Washington, D. C. January 29th, 1915.

First Row—C. J. Autterson, A. A. Hudson, J. A. Holmes, A. C. Smith, C. H. Hubbard, A. Stalker, F. Dority.

Second Row—Oscar Olsen, J. Lowes, J. D. Baird, M. G. McIntosh, G. L. Atkinson, J. W. Montgomery, D. T. Sullivan.

Third Row—B. F. Haagenson, W. J. Stitt, J. P. Stitt, M. McKay, H. A. Murphy, E. C. Akers.

Grand Lodge Officers

1915

Grand President .....A. C. Smith

Grand Financial Secretary .....J. A. Holmes

Grand Secretary .....J. A. Holmes
307 Superior Ave., Cleveland, O., Res. Address 29 Edgehill Rd. Cleve. Hts., Cleveland, Ohio.

Grand Treasurer .....C. H. Hubbard

1st Past Grand President .....Alex. Clark

2nd Past Grand President .....C. E. Benham

3rd Past Grand President .....Geo. McCullagh

4th Past Grand President .....W. E. Rice

5th Past Grand President .....Henry Leisk

6th Past Grand President .....A. J. McKay

7th Past Grand President .....C. H. Hubbard

8th Past Grand President .....J. A. Ward

9th Past Grand President .....W. D. Hamilton

10th Past Grand President .....H. H. Parsons

11th Past Grand President .....J. A. Calbick

12th Past Grand President .....W. D. Ames

13th Past Grand President .....M. G. McIntosh

14th Past Grand President .....John H. McDonald

15th Past Grand President ..... .C. J. Autterson

16th Past Grand President .....James G. Herbert

17th Past Grand President .....C. T. Bronson

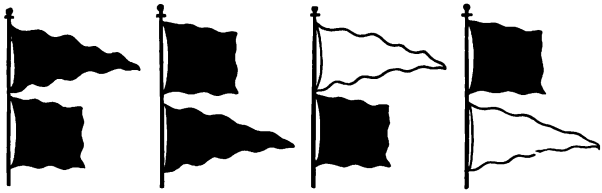
18th Past Grand President .....Millard M. Stewart

PAST GRAND PRESIDENTS

C. T. Bronson M. M. Stewart J. A. Calbick
A. J. McKay Henry Leisk J. A. Ward
J. H. McDonald Alex Clark George McCullagh M. G. McIntosh
C. E. Benham W. D. Ames J. G. Herbert W. S. Hamilton
C. H. Hubbard H. H. Parsons
Charles Autterson W. E. Rice

STORM SIGNALS

As displayed on the Great Lakes at United States Weather Bureau Stations



N. E. Storm. S. E. Storm. N. W. Storm. S. W. Storm.

Hurricane or very severe storm

Information Signals (red or white pennant) displayed alone have been discontinued.

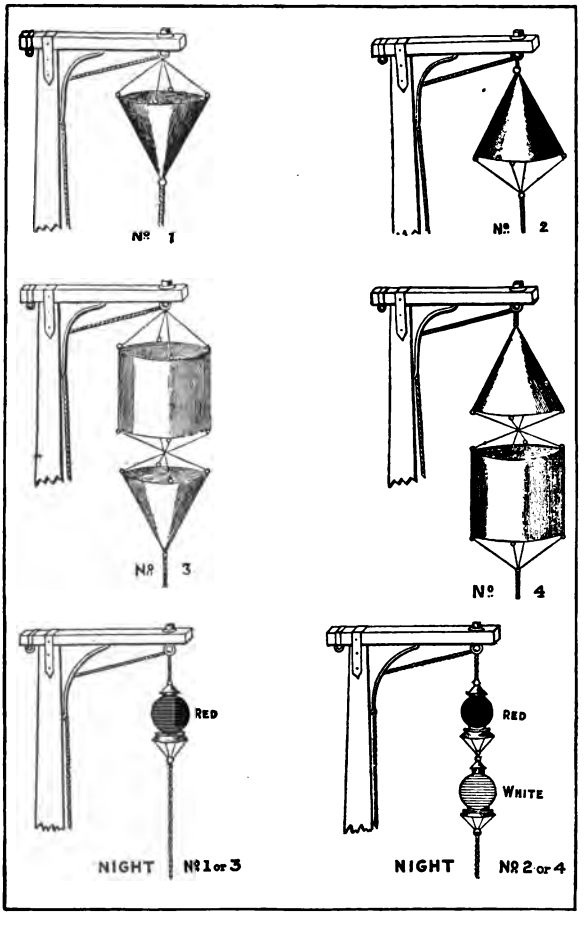
EXPLANATION

Storm Signal.—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind; red, easterly (from northeast to south); white, westerly (from southwest to north). The pennant above the flag indicates that the wind is expected to blow from the northerly quadrants; below, from the southerly quadrants.

By night, a red light indicates easterly winds, and a white light above a red light, westerly winds.

Hurricane Signal.—Two red flags with black centers displayed one above the other, indicate the expected approach of tropical hurricanes, and also of those extremely severe and dangerous storms which occasionally move across the lakes and the northern Atlantic coast. Hurricane warnings are not displayed at night.


Nº 1
Nº 2
Nº 3
Nº 4
RED
NIGHT Nº 1 or 3
RED
WHITE
NIGHT Nº 2 or 4

CANADIAN STORM WARNINGS

Fig. No. 1.—This signal indicates the probability of a gale, **at first** from an Easterly direction.

Fig. No. 2.—This signal indicates the probability of a gale, **at first** from a Westerly direction.

Fig. No. 3.—This signal indicates the probability of a **heavy** gale, **at first** from an Easterly direction.

Fig. No. 4.—This signal indicates the probability of a **heavy** gale, **at first** from a Westerly direction.

The night signal corresponding to Nos. 1 and 3 is a red light.

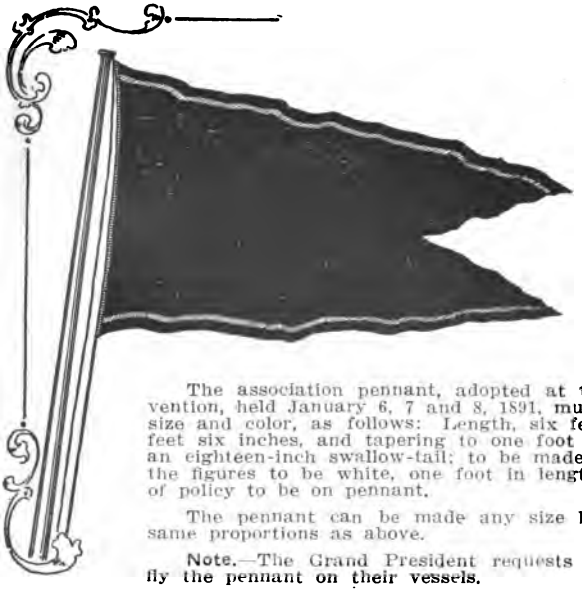
Night signal corresponding to Nos. 2 and 4 is a red light above a white light.

Note I.—Mariners will be able to obtain further information from Signal Agents, or by consulting the daily forecasts.

Note II.—Mariners must always bear in mind that the storm signals do not necessarily mean that storm will occur at the place where the signal is displayed, but that one is expected either there or within such a distance that vessels leaving port would be liable to be caught in it.

R. F. STUPART, Director.

Meteorological Office, Toronto.



The association pennant, adopted at the Buffalo convention, held January 6, 7 and 8, 1891, must be of uniform size and color, as follows: Length, six feet; width, three feet six inches, and tapering to one foot six inches, with an eighteen-inch swallow-tail; to be made of red bunting, the figures to be white, one foot in length. The number of policy to be on pennant.

The pennant can be made any size by giving it the same proportions as above.

Note.—The Grand President requests all members to fly the pennant on their vessels.

The Ship Masters' Association

Its Aims and Objects
Who Are Its Members

Extracts From Constitution

Article I — Purposes of the Association

Sec. 2. The purpose of this Association shall be to improve and elevate the characters of its members, to create a brotherly feeling, to visit the sick, render necessary assistance in case of death, to provide for a beneficiary fund, and to pay the same to the family of deceased members, or as may be otherwise directed.

Article V — Membership

Sec. 1. Every applicant for membership in this Association shall hold a master's certificate issued by the United States or Canadian Government, in force at the date of his becoming a member. He must also have been actively engaged in sailing within a period of two years prior to the date of his application for membership.

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NAMES AND ADDRESSES OF MEMBERS, SHIP MASTERS' ASSOCIATION

Pennant	Lodge	Name	Address	City
1867	1	Abel, Wm.	Queen St.	Pt. Dalhousie, Ont.
996	6	Ackerman, J. C.	411 No. Robert St.	Ludington, Mich.
1705	1	Acton, Jos. R.	22 Lythe Ave.	Buffalo, N. Y.
1916	9	Adams, Jos.	136 Clinton St.	Alpena, Mich.
2153	14	Aitken, H. J.		Courtright, Ont.
1334	2	Akers, E. C.	817 Park St.	Pt. Huron, Mich.
2179	14	Albinson, C. R.		Mooretown, Ont.
1116	4	Allen, C. L.	4712 Clinton Ave.	Cleveland, O.
1038	4	Allen, Sam'l	1403 W. 65th St.	Cleveland, O.
1816	4	Allen, M. G.	8910 Wade Park Ave.	Cleveland, O.
1904	6	Alexander, Algie		Kewaunee, Wis.
2178	14	Alexander, Robt.		Mooretown, Ont.
2368	16	Alexander, Wm.		Nipigon, Ont.
1948	8	Ames, F. C.	Box 138	Algonac, Mich.
1328	11	Ames, Aug.		Algonac, Mich.
1620	4	Ames, G. W.	11810 Chesterfield St.	Cleveland, O.
307	4	Ames, W. D.	15514 Detroit Ave.	Lakewood, O.
1783	11	Ames, W. J.	Box 268	Algonac, Mich.
2337	4	Amsbary, W. F.	Cleveland-Cliffs Co.	Cleveland, O.
1411	7	Anderholt, L. P.	137 Blaine Ave.	Detroit, Mich.
1700	3	Anderson, Alex. A.	3037 Clifton Ave.	Chicago, Ill.
1368	4	Anderson, C. A.	1360 Ethel St.	Lakewood, O.
115	2	Anderson, E. B.	114 Linwood Ave.	Detroit, Mich.
1513	6	Anderson, Gus	901 34th St.	Milwaukee, Wis.
2166	3	Andersen, H. E.	19 W. Maple St.	Chicago, Ill.
570	4	Anderson, Jos.	7108 W. Clinton Ave.	Cleveland, O.
1321	4	Anderson, M.	1064 E. 99th St.	Cleveland, O.
448	6	Anderson, O. N.	422 Camp Bldg., Care J. O. Nelson	Milwaukee, Wis.
1641	4	Anderson, P. A.	1356 Bonny View Ave.	Lakewood, O.
1498	3	Anderson, Sig	2208 No. Kimball Ave.	Chicago, Ill.
1733	10	Anderson, S. V.	33 State St.	Ogdensburg, N. Y.
1319	3	Anderson, Wm.	2039 Chase Ave.	Chicago, Ill.
2170	6	Andrews, Andrew	1270½ Orchard Place	Milwaukee, Wis.
1892	1	Apsey, A. W.	45 Harvard Pl.	Buffalo, N. Y.
1569	7	Archer, A. A.	71 Dragon Ave.	Detroit, Mich.
253	7	Armstrong, B.	207 Blaine Ave.	Detroit, Mich.

Pennant	Lodge	Name	Address	City
854	9	Ashley, E. G.	207 Chamber of Com. Bldg.	Toledo, O.
671	7	Ashley, W. A.	Care Brown & Co.	Buffalo, N. Y.
1097	7	Atkinson, C. L.	178 Hogarth Ave.	Detroit, Mich.
2047	11	Atkinson, Geo.		Algonac, Mich.
1701	3	Atkinson, Gus E.	1919 N. Lawndale Ave.	Chicago, Ill.
1689	7	Autterson, Chas.	234 Jefferson Ave.	Detroit, Mich.
2104	14	Autterson, John	316 Trumble St.	St. Clair, Mich.
1953	14	Autterson, J. W.	402 Trumble St.	St. Clair, Mich.
1454	4	Bailey, F. A.		Vermilion, O.
614	9	Bailey, R. N.	Hicks & Clinton Sts.	Toledo, O.
1592	7	Bain, A. J.	111 Pelissier St.	Windsor, Ont.
1960	8	Baird, John D.		Marine City, Mich.
1397	7	Baker, Burton S.	328 Van Dyke Ave.	Detroit, Mich.
1356	7	Baker, H. W.	237 Clairmount Place	Detroit, Mich.
1137	7	Balfour, C. C.	237 Clairmont Place	Detroit, Mich.
232	6	Ballentine, E. D.	1440 6th St.	Pt. Huron, Mich.
1423	4	Banker, G. H.	1325 East 124th Pl.	Cleveland, O.
1610	1	Barclay, John	380 Hudson St.	Buffalo, N. Y.
1632	7	Barnes, C. E.		Otter Lake, Mich.
2120	15	Barreth, M.	835 15th St. E.	Owen Sound, Ont.
2293	1	Barry, Fred	523 Elk St.	Buffalo, N. Y.
1384	4	Bartel, A. E.	214 N. Canal St.	Chicago, Ill.
2290	15	Batten, A. A.	Box 2	Owen Sound, Ont.
1903	8	Beall, A. R.	1458 E. 110th St.	Cleveland, O.
2402	17	Beatty, A. W.	Box 317	Midland, Ont.
2345	17	Beatty, Wilbur	Box 317	Midland, Ont.
2196	7	Beauvais, H. L.	1294 Seminole Ave.	Detroit, Mich.
1090	4	Beggs, Thos.	1467 Olivewood Ave.	Lakewood, O.
——	6	Behm, Paul	703 W. Ludington Ave.	Ludington, Mich.
1698	4	Bell, G. A.		Vermilion, O.
234	4	Benham, C. E.	36 Commercial Bk. Bldg.	Cleveland, O.
427	4	Benham, Chas. A.	9705 Clifton Blvd.	Cleveland, O.
1499	4	Benham, G. E.	9101 Detroit Ave.	Cleveland, O.
982	4	Benham, W. P.	Care Hutchinson & Co., Leader-News Bldg.	Cleveland, O.
1760	1	Bennett, Chas. D.	38 Plymouth Ave.	Buffalo, N. Y.
1525	6	Bennett, G. J.	1148 Madison St.	Milwaukee, Wis.
978	6	Bennett, Henry	642 Madison St.	Milwaukee, Wis.
1021	2	Bennett, J. S.	246 Fletcher St.	Tonawanda, N. Y.
1126	9	Benson, Dan		Prairie Depot, O.
1910	3	Berentsen, Jacob.	1010 Oak St.	Manistee, Mich.

Pennant	Lodge	Name	Address	City
104	1	Berrow, J. H.	Box 37, R. F. D. No. 5	Cullman, Ala.
1193	7	Bertrand, Frank	1176 15th St	Detroit, Mich.
1714	4	Birmingham, Jas		Geneva, O.
2249	15	Bishop, Joseph	1520 Eighth Ave. E	Owen Sound, Ont.
1205	4	Blattner, W. H.	2167 East 46th St	Cleveland, O.
1715	8	Booth, W. H.	R. F. D. No. 2	Marine City, Mich.
1427	3	Bough, Chas.	121 W. Schuyler St	Oswego, N. Y.
1068	4	Bouille, David	3304 Marvin Ave	Cleveland, O.
1236	4	Bouille, Pierre	3304 Marvin Ave	Cleveland, O.
2335	12	Bourassa, Albert	423 E. 6th St	Duluth, Minn.
595	6	Boyce, H. M.	631 Superior St	Milwaukee, Wis.
2264	16	Bradden, J. E.	57 Empire Ave	Port Arthur, Ont.
1503	2	Bradshaw, J. L.	1013 Lincoln Ave	Pt. Huron, Mich.
1061	7	Brady, T. J.	147 Lathrope Ave	Detroit, Mich.
1387	4	Brant, Aug.		Central Lake, Mich.
1605	3	Bright, Wm. T.	2707 N. Whipple St	Chicago, Ill.
2107	14	Brines, Jesse M.	412 Orchard St	St. Clair, Mich.
2150	14	Brines, Samuel	804 Clinton Ave	St. Clair, Mich.
973	3	Brion, J. W.	713 Perry-Payne Bldg	Cleveland, O.
1262	8	Broadbridge, A. T.	Solway Lodge	Detroit, Mich.
1727	1	Broderick, Benj.	565 Forest Ave	Buffalo, N. Y.
2400	3	Brookhyser, Geo.	434 St. James Place	Chicago, Ill.
1651	1	Brooks, W. H.	57 Royal Ave	Buffalo, N. Y.
804	2	Brown, C. T.	Miss N. Brown, 35 The Majestic,	Washington, D. C.
1768	2	Brown, Chas. D.	S. O. Co., Steamer Renown	Whiting, Ind.
1673	7	Brown, Claud D.	East Main St	Geneva, O.
174	4	Brown, F. H.	7004 Franklin Ave	Cleveland, O.
1198	8	Brown, Hector	368 No. Elizabeth St.	Marine City, Mich.
1531	14	Brown, Nelson	R. F. D. No. 4	St. Clair, Mich.
2034	12	Brower, Harry		Two Harbors, Minn.
1691	6	Brownell, J. A.	935 Allis St.	Milwaukee, Wis.
1083	6	Brownell, Stephen	517 Fifth Ave	Milwaukee, Wis.
1542	4	Buchanan, Jas.	3302 Denison Ave	Cleveland, O.
1584	1	Buckley, J.	47 St. Johns Place	Buffalo, N. Y.
995	2	Budd, Melvin	349 West 7th St	Erie, Pa.
319	1	Buie, Daniel	433 60th St	Englewood, Ill.
2106	14	Burk, Joseph C.	314 Cass St	St. Clair, Mich.
2328	17	Burke, B.	Church St	Penetanguishene, Ont.

Pennant	Lodge	Name	Address	City
2319	17	Burke, David	Queen Victoria St.	Midland, Ont.
2316	17	Burke, E. F.	Manley St.	Midland, Ont.
1117	7	Burke, Enos J.	415 Wabash Ave.	Detroit, Mich.
2314	17	Burke, Fred	Box 814	Midland, Ont.
2305	17	Burke, Roy		Penetanguishene, Ont.
1167	9	Burnham, Geo. H.	207 Chamber of Com.	Toledo, O.
1827	7	Burns, Geo. C.	298 Field Ave.	Detroit, Mich.
1101	2	Burns, Jno.	1017 8th St.	Pt. Huron, Mich.
1294	1	Burns, Jno. J.	288 14th St.	Buffalo, N. Y.
1945	1	Burns, James	468 Elk St.	Buffalo, N. Y.
1589	4	Burns, T. C.	1486 W. 116th St.	Cleveland, O.
1177	4	Burr, James	7209 Clinton Ave.	Cleveland, O.
2078	8	Burrows, A. W.		Marine City, Mich.
1577	4	Burt, Geo. G.	2563 Maplewood Ave.	Toledo, O.
——	12	Burtch, F. L.	New Midland Hotel	Duluth, Minn.
2403	4	Bush, Chas. A.	3115 Clinton Ave.	Cleveland, O.
227	2	Buzzard, Jno.	Box 82	Blenheim, Ont.
1830	7	Byers, J. C.	222 Forest Ave.	Detroit, Mich.
2365	12	Byers, John F.	310 South Main St.	Cheboygan, Mich.
2063	3	Byork, O. C.	710 E. Main St.	Benton Harbor, Mich.
2298	14	Cahours, Edward	517 Vine St.	St. Clair, Mich.
290	4	Call, Richard	3 Fiske St.	Ashtabula, O.
1374	7	Callam, A. C.		Amherstburg, Ont.
256	3	Cambell, J. M.	117 E. 8th St.	Michigan City, Ind.
1308	3	Campau, L. A.	358 East 59th St.	Chicago, Ill.
731	7	Campau, W. H.	162 Kirby Ave., W.	Detroit, Mich.
2171	1	Campbell, Chas.	91 Meridian St.	Buffalo, N. Y.
2057	4	Campbell, Jno.	Route 3	Millington, Mich.
2071	11	Campbell, R.	Box 57, R. F. D. No. 1	Algonac, Mich.
2103	14	Campbell, Robert	Box 208	Kingsville, Ont.
2401	15	Campbell, T.	Taylor St.	Wiarton, Ont.
2094	3	Campbell, Walter	10125 Commercial Ave.	So. Chicago, Ill.
1241	2	Canartney, M.	715 Franklin Ave.	Bay City, Mich.
1961	7	Cannolly, J. T.	1109 Gillett Ave.	Port Huron, Mich.
1609	2	Carlisle, T. J.	1018 Poplar St.	Pt. Huron, Mich.
914	4	Carloss, W. S.	4715 Clinton Ave.	Cleveland, O.
149	3	Carr, Jas.	353 South Normal Parkway	Chicago, Ill.
2397	1	Carr, Jas.	Tonawanda Fuel Co.	Tonawanda, N. Y.
1540	7	Carr, Whitney	22 Spruce St.	Ashtabula, O.

Pennant	Lodge	Name	Address	City
2307	17	Carson, Wm.	Box 361	Midland, Ont.
439	6	Carter, W. J.	219 23rd St.	Milwaukee, Wis.
1908	6	Cartwright, Peter	560 5th Ave.	Milwaukee, Wis.
1819	6	Carus, Edw.	1209 Franklin St.	Manitowoc, Wis.
1890	10	Casey, Henry	118 Elizabeth St.	Ogdensburg, N. Y.
1495	2	Cassin, James	1334 Lapeer Ave.	Pt. Huron, Mich.
2360	16	Cassin, Josue	68 Algoma St.	Port Arthur, Ont.
1861	6	Cavanaugh, J. F.	309 2nd St.	Grand Rapids, Mich.
2028	12	Chamberlain, W. B.	516 East 7th St.	Duluth, Minn.
861	2	Chambers, A. P.	829 Prospect Pl.	Pt. Huron, Mich.
2152	14	Chambers, D. G.		Courtwright, Ont.
44	4	Chapman, A. C.	1472 Robinwood Ave.	Lakewood, O.
293	4	Chapman, C. B.	360 Washington Ave.	Lorain, O.
1845	1	Chilson, W. E.	150 Woodward St.	Buffalo, N. Y.
1125	3	Christensen, A.	753 Farwell Ave.	Milwaukee, Wis.
2369	4	Christensen, C.	4208 John Ave.	Cleveland, O.
892	6	Christenson, P.	815 State St.	Manitowoc, Wis.
1355	7	Christie, Chas.	541 Clinton Ave.	Detroit, Mich.
1172	3	Christopher, S.	1928 N. Richmond St.	Chicago, Ill.
252	3	Chron, Thos.	223 Adams	Bay City, Mich.
1393	1	Clark, J. C.		Crittenden, N. Y.
1085	7	Clarke, A. A.	Care Inland Steel Co.	Indiana Harbor, Ind.
35	1	Clarke, George H.	424 Normal Ave.	Buffalo, N. Y.
1844	1	Clarke, J. M.	575 Tonawanda St.	Buffalo, N. Y.
1508	1	Clarke, W. E.	285 14th St.	Buffalo, N. Y.
1696	6	Clausson, G. T.	571 5th Ave.	Milwaukee, Wis.
2064	12	Clegg, H. J.	405 5th Ave.	Lorain, O.
433	4	Cleveland, C. R.	3500 Denison Ave.	Cleveland, O.
1244	7	Clifford, Alex.	878 Fort St. E.	Detroit, Mich.
370	3	Clow, J. M.	1232 Merryman St.	Marinette, Wis.
642	3	Cochrane, David	3530 Ellis Ave.	Chicago, Ill.
1070	4	Cody, F. B.	Care J. W. Petch, Walkerville	Ont., Can.
438	4	Colbert, Thos.	1440 E. 89th St.	Cleveland, O.
116	1	Coleman, J. H.	Care Jno. Perew, 317 Chamber of Commerce	Buffalo, N. Y.
274	4	Collier, W. A.	2185 E. 71st St.	Cleveland, O.
1563	4	Conkey, C. M.	8010 Luella Ave.	Chicago, Ill.
1949	14	Conlin, T. N.	315 Trumble St.	St. Clair, Mich.
2101	6	Cook, Jacob F.	679 Clinton St.	Milwaukee, Wis.
1274	6	Cook, J. G.	133 Oneida St.	Milwaukee, Wis.

Pennant	Lodge	Name	Address	City
1309	9	Cook, J. W.	57 So. Elliott Pl.	Brooklyn, N. Y.
1599	6	Coon, Geo.	441 Cass St.	Milwaukee, Wis.
1930	2	Cooper, J. E.	2784 Military St.	Pt. Huron, Mich.
50	1	Corcoran, Jos.	225 E. 3rd St.	Erie, Pa.
1977	9	Cornwall, A. W.	Gt. Lakes Tow. Co.	Toledo, O.
738	4	Cottrell, G. L.	1290 Lakeland Ave.	Lakewood, O.
1257	8	Cottrell, J. E.	Elizabeth St.	Marine City, Mich.
2055	1	Coughlin, Michael	179 O'Connell Ave.	Buffalo, N. Y.
448	1	Coughlin, Daniel	563 Perry St.	Buffalo, N. Y.
1954	4	Cowie, Andrew	1510 Coutant St.	Lakewood, O.
1012	2	Cowles, W. J.	R. F. D. 1	Blaine, Mich.
1447	7	Craig, J. C.	134 Tyler Ave.	Highland Park, Mich.
1135	4	Craigie, Alex.	1389 West 64th St.	Cleveland, O.
1717	1	Crawford, G. B.	205 Vorhees Ave.	Buffalo, N. Y.
1874	6	Crawford, J. G.	701 W. Ludington Ave.	Ludington, Mich.
2059	3	Crawford, J. M.	20 Graves Place	Holland, Mich.
1730	2	Crockett, T. J.	437 11th St.	Pt. Huron, Mich.
1664	2	Crooker, D. M.	2708 Gratiot Ave.	Pt. Huron, Mich.
1076	7	Crosby, W. J.	379 Cavalry Ave.	Detroit, Mich.
1445	3	Cullnan, Jno.	1909 Newport Ave.	Chicago, Ill.
2193	11	Cole, Fred S.		Algonac, Mich.
2157	12	Cole, Martin	807 12th Ave. E.	Duluth, Minn.
2159	4	Collins, Allen	1528 Northland Ave.	Lakewood, O.
2234	15	Cormett, D. F.	376 17th St. E.	Owen Sound, Ont.
2233	15	Cormett, W. E.	376 17th St. E.	Owen Sound, Ont.
1523	4	Culp, Hamilton	Box 575	Willoughby, O.
2292	4	Culp, John W.	R. F. D. 2	Willoughby, O.
2388	3	Cummings, Geo.		Saugatuck, Mich.
1252	9	Cunningham, J. J.	1727 Ontario St.	Toledo, O.
827	1	Cunningham, J. J.	59 Ardmore Pl.	Buffalo, N. Y.
2315	17	Cumingham, W. J.	Hagal Ave.	Midland, Ont.
2224	10	Curran, John F.	66 Patterson St.	Ogdensburg, N. Y.
2240	9	Dagon, Dennis	339 Wabash St.	Toledo, O.
1360	7	Dailey, Michael	252 Brady St.	Milwaukee, Wis.
1987	7	Davie, D. W.	62 Beals Ave.	Detroit, Mich.
121	2	Davis, E. H.	717 Division St.	Pt. Huron, Mich.
1812	1	Davis, Henry J.		Miami, Florida.
138	2	Davis, H. W.	703 Ontario St.	Port Huron, Mich.
2207	15	Davis, J. F.		Wiarton, Ont.
1637	4	Dawley, W. W.	R. F. D. 1	Conneaut, O.

Pennant	Lodge	Name	Address	City
1851	10	Delaney, Geo. J.	423 East 6th St.	Erie, Pa.
2282	4	DeLand, W. A.	1349 Nicholson Ave.	Lakewood, O.
2172	1	DeLaney, Wm. F.	775 Fount Ave.	Buffalo, N. Y.
1787	7	De Nike, Lee C.	147 Highland Ave.	Highland Park, Mich.
2003	10	Dessert, W. G.	16 Clark St.	Ogdensburg, N. Y.
983	4	Detlifs, Emil	3788 W. 33rd St.	Cleveland, O.
199	3	Disher, Wm.	4838 Fulton St.	Chicago, Ill.
1668	2	Ditzel, H. E.	211 South 16th Ave. E.	Duluth, Minn.
2334	12	Ditzel, Edward J.	234 3rd Ave.	Two Harbors, Minn.
1492	4	Dixon, A.	3049 W. 30th St.	Cleveland, O.
501	6	Doak, J. A.	599 Wentworth Ave.	Milwaukee, Wis.
2058	4	Dodge, W. J.	1260 St. Charles St.	Lakewood, O.
1554	1	Doohen, J. B.	423 Fargo Ave.	Buffalo, N. Y.
2032	12	Doherty, J. E.	Str. Mary Scott	Ashland, Wis.
1075	7	Donaghue, E. J.	520 14th Ave.	Detroit, Mich.
1719	1	Donahue, Jos.	72 Mont Clair St.	Buffalo, N. Y.
2151	14	Doner, George R.	1867 E. 69th St.	Cleveland, O.
1672	14	Doner, Jas.	411 Adams St.	St. Clair, Mich.
1766	14	Doner, T. F.	1870 3rd Ave.	Detroit, Mich.
1539	6	Dority, F. A.	889 Hackett Ave.	Milwaukee, Wis.
1683	7	Dorry, B. B.	Care Light House Inspector	New Orleans, La.
1147	9	Doville, D. F.	P. O. Box 348, Central Sta.	Toledo, O.
1251	9	Doville, Egbert	140 University Blvd.	Toledo, O.
407	4	Doville, Jos.		Sodus Pt., N. Y.
317	1	Drake, A. B.	1010 Prudential Bldg.	Buffalo, N. Y.
1059	4	Driscoll, J. H.	1455 Northland Ave.	Lakewood, O.
1670	1	Drury, J. E.	161 Dodge St.	Buffalo, N. Y.
2327	17	Dube, Edmond		Penetanguishene, Ont.
1566	6	DuClos, Napoleon	935 Newhall St.	Milwaukee, Wis.
1095	6	Duddleson, J. W.	110 Bingham Av.	Sault Ste. Marie, Mich.
532	7	Duncanson, D. J.	37 Reed Place	Detroit, Mich.
1739	10	Dunn, C. A.	1287 Warren Ave., E.	Detroit, Mich.
17	1	Dunn, Jno.	723 Elliott St.	Buffalo, N. Y.
2002	4	Dunn, F. H.	8700 Tompkins Ave.	Cleveland, O.
1519	1	Dunn, Thos.	252 E. Utica St.	Buffalo, N. Y.
2141	4	Dunn, W. R.	3843 W. 44th St.	Cleveland, O.
1467	9	Dunseith, Jno.	820 Lincoln Ave.	Toledo, O.
1534	8	Dupiue, F. A.	Box 218	Marine City, Mich.
2254	4	Durkee, W. W.	30 Hambley Ave.	Toronto, Ont.

Pennant	Lodge	Name	Address	City
105	1	Durker, Henry	4901 W. Van Buren St.	Chicago, Ill.
1803	4	Durney, Jno.	Central Hotel	Cleveland, O.
1127	4	Dyble, Edw.	14419 Detroit Ave.	Lakewood, O.
2251	12	Dyrness, Ole	1805 Maryland Ave.	Superior, Wis.
2257	3	Eaton, R. C.	519 Spring St.	Michigan City, Ind.
1425	3	Edwards, M. L.	2758 Osgood St.	Chicago, Ill.
2194	12	Ege, Gustaf	2322 West 4th St.	Duluth, Minn.
2374	12	Ege, Louis	2322 West 4th St.	Duluth, Minn.
1975	3	Eger, W. W.	218 Seeley Ave.	Chicago, Ill.
1494	4	Ehrhart, J. W.	2007 East 2nd St.	Duluth, Minn.
2158	12	Elden, Otto J.	208 Exchange Bldg.	Duluth, Minn.
952	4	Eldridge, H. C.	1296 West 78th St. N. W.	Cleveland, O.
899	3	Elliott, A. M.	3458 Wrightwood Ave.	Chicago, Ill.
2048	3	Elliott, C. A.	3458 Wrightwood Ave.	Chicago, Ill.
1363	3	Elliott, Frank	1049 Insurance Exchange, 175 Jackson Blvd.	Chicago, Ill.
2080	7	Ellis, Claude A.		Douglas, Mich.
1483	4	Ellis, F. S.	1348 E. 111th St.	Cleveland, O.
2154	3	Emersen, S. R.	3727 Lyndale Ave.	Chicago, Ill.
2084	12	England, E. F.	614 Torrey Building	Duluth, Minn.
1219	4	England, R. W.	1370 West 112th St.	Cleveland, O.
272	4	Ennes, C. G.	1231 West 117th St.	Cleveland, O.
1529	4	Ennes, Everett	422 Jackson St.	Sandusky, O.
2331	3	Emigh, H. W.	Box 35	Lexington, Mich.
1989	6	Ericksen, Henry	1056½ 18th St.	Milwaukee, Wis.
1994	7	Ernest, C. W.	923 Trumbull Ave.	Detroit, Mich.
2007	1	Ernest, F. H.	35 Boyd St.	Buffalo, N. Y.
1886	3	Evans, Edw.	841 North Sacramento Blvd.,	Chicago, Ill.
1608	3	Evans, Jno.	709 First St.	St. Joseph, Mich.
1536	3	Evans, Robert T.	1108 Miles Ave.	St. Joseph, Mich.
1885	6	Evanson, Arnold	1157½ Madison St.	Milwaukee, Wis.
373	2	Everett, A.	Room 6, 300 West So. Water St.	Chicago, Ill.
2275	16	Fader, A.	304 River St.	Port Arthur, Ont.
1361	4	Faragher, Wm.	1354 Edward St.	Lakewood, O.
1838	8	Fehmer, Otto	255 N. Elizabeth St.	Marine City, Mich.
1386	4	Ferguson, J. A.	106 Marquette Ave.	Bay City, Mich.
2340	3	Ferguson, Jas. J.	1548 N. Keeler Ave.	Chicago, Ill.
629	7	Ferguson, R. E.	32 Janette Ave.	Windsor, Ont.
1041	4	Ferguson, Wm.	1433 Robinwood Ave.	Lakewood, O.
2266	16	Ferguson, W. J.	233 South John St.	Fort William, Ont.

Pennant	Lodge	Name	Address	City
1997	2	Farley, E. J.	1016 Erie St.	Port Huron, Mich.
347	4	Fick, F. A.	1638 East 86th St.	Cleveland, O.
1464	1	Finegan, O. P.	22 Gelston St.	Buffalo, N. Y.
2069	14	Finnegan, Herbert.	105 N. 5th St.	St. Clair, Mich.
1974	3	Fischer, Robert	339 So. Cicero Ave.	Chicago, Ill.
1446	4	Fitch, E.	1562 Cohassett Ave.	Lakewood, O.
1457	3	Fitch, Edw.	609 So. Oak Park Ave.	Oak Park, Ill.
1465	7	Flaherty, Jos.	Marine P. O.	Detroit, Mich.
971	2	Fleck, Jas. A.	1475 Olivewood Ave.	Lakewood, O.
42	1	Fletcher, Wm.	18 Kenefick Ave.	Buffalo, N. Y.
451	3	Flood, G. W.	3059 Warren Ave.	Chicago, Ill.
1227	8	Folsom, F. C.	225 Richton Ave.	Highland Park, Mich.
2180	12	Forbes, Arthur	Gen. Delivery	Manitowoc, Wis.
1417	7	Forbes, Alex.	71 Hazelwood Ave.	Detroit, Mich.
1141	7	Forton, F. S.	34 Fessenden St.	Mt. Clemens, Mich.
1951	2	Foster, Jno.	323 Hubbard Ave.	Detroit, Mich.
2235	6	Fowler, Christa C.		Montague, Mich.
1629	2	Fowler, Thos.	291 Vermont Ave.	Detroit, Mich.
1679	4	Fowlie, Andrew		Goderich, Ont.
612	7	Fox, A. J.	Foot of 1st St.	Detroit, Mich.
1026	4	Fox, Benson	1634 E. 86th St.	Cleveland, O.
1815	7	Fox, Chas.		Mt. Clemens, Mich.
2030	12	Fox, Henry	General Delivery	Two Harbors, Minn.
1576	9	Fox, J. C.		Put-in-Bay, O.
2262	4	Francis, L. J.	3215 West 86th St.	Cleveland, O.
1970	6	Franklin, W. E.	1005 State St.	Traverse City, Mich.
2329	15	Frewer, Geo. D.	Mimico Beach	Toronto, Ont.
2279	16	Friday, H.	8 Machar Ave.	Port Arthur, Ont.
2276	16	Friday, J.	285 Park St.	Port Arthur, Ont.
2022	2	Frilay, H. W.	2056 Military St.	Pt. Huron, Mich.
2378	4	Full, Peter		Vermilion, O.
200	3	Gallagher, A.	604 Garfield Ave.	Duluth, Minn.
2074	12	Gallagher, B. J.	1322 Ludington St.	Escanaba, Mich.
2100	12	Gallagher, J. H.	10644 Waldon Parkway	Chicago, Ill.
2215	6	Gallagher, L. A.	2408 Elm St.	Milwaukee, Wis.
986	3	Gallino, A. P.	416 Jay St.	St. Clair, Mich.
1771	11	Galton, F. D.		Algonac, Mich.
2019	11	Galton, J. W.		Algonac, Mich.
1911	10	Gamash, Fred	36 Patterson St.	Ogdensburg, N. Y.
2371	4	Gardner, Chas. B.	2044 Warren Rd.	Lakewood, O.

Pennant	Lodge	Name	Address	City
2336	12	Garner, Alfred D.	Zenith Furnace Co.	Duluth, Minn.
2366	16	Garriock, James	222 Angus St.	Port Arthur, Ont.
2285	16	Garriock, W.	222 Angus St.	Port Arthur, Ont.
1552	6	Garrity, Thos.	935 Newhall St.	Milwaukee, Wis.
1585	7	Gatfield, E. D.		Grosse Isle, Mich.
1653	1	Gebhard, F. R.	1308 Michigan St.	Buffalo, N. Y.
1684	2	Geel, Guy G.	Care Commercial Bank	Port Huron, Mich.
2265	16	Gehl, H. L.	283 College St.	Port Arthur, Ont.
2342	3	Gellich, B. J.	1029 Webster St.	Traverse City, Mich.
2310	17	German, Frank	Box 951	Sault Ste. Marie, Ont.
1723	1	Gibson, Jas.	290 Connecticut St.	Buffalo, N. Y.
1060	1	Gibson, Jas. R.	692 Prospect Ave.	Buffalo, N. Y.
2393	12	Gibson, Norman	86 Grand St.	Buffalo, N. Y.
831	9	Gillespie, I. G.	Box 566	Pt. Clinton, O.
1600	7	Girardin, D. C., Jr.	1438 14th Ave.	Detroit, Mich.
1595	4	Girardin, W. L.	1432 Westwood Ave.	Lakewood, O.
1920	7	Gleason, J. F.	702 Lincoln Ave.	Detroit, Mich.
2117	4	Glenn, Alex.	2325 East 100th St.	Cleveland, O.
2037	12	Glenn, M. E.	4106 West 4th St.	Duluth, Minn.
2025	12	Glockle, M. B.	Gen. Delivery	Paraiso, Canal Zone
2399	10	Gooden, Frank	119 Lafayette St.	Ogdensburg, N. Y.
1054	7	Goodrow, Frank	475 Cadillac Ave.	Detroit, Mich.
1403	4	Goodwin, J. F.	2066 W. 87th St.	Cleveland, O.
1526	7	Gordon, D. G.	504 Chamber of Commerce, Care C. A. Chamberlin	Detroit, Mich.
2354	17	Gould, C. E.	Mary St.	Midland, Ont.
1493	4	Gould, F. E.	1591 E. 86th St.	Cleveland, O.
770	1	Graham, Geo.	433 Prospect Ave.	Buffalo, N. Y.
1314	1	Grant, C. J.	805 Main St.	Conneaut, O.
1779	11	Grant, Theo.	Box 78	Algonac, Mich.
1588	4	Grashaw, W.	2360 E. 89th St.	Cleveland, O.
120	1	Grasser, Geo. L.	Nueva Gerona	Isle of Pines, Cuba
1568	3	Green, Arnold	3231 Potomac Ave.	Chicago, Ill.
2042	12	Green, Chas. H.	1515 E. 4th St.	Duluth, Minn.
1016	1	Green, J. D.	955 West Ave.	Buffalo, N. Y.
2049	1	Green, Jos. M.	529 Woodlawn Ave.	Buffalo, N. Y.
2114	12	Green, Peter	Box 74	Manistique, Mich.
1150	14	Greening, Wm.	822 Arch St.	Ann Arbor, Mich.
2122	6	Grimm, Otto C.	566½ 7th Ave.	Milwaukee, Wis.
2221	12	Gunderson, G.	607 Johnston St.	Sault Ste. Marie, Mich.

Pennant	Lodge	Name	Address	City
1596	4	Gustafson, Peter	2237 Carnegie Ave.	Cleveland, O.
1786	7	Hackett, T. H.	477 4th Ave.	Detroit, Mich.
786	8	Hagan, Wm.	336 Union St.	Marine City, Mich.
1204	4	Hahn, Chas. P.	Box 46	Vermilion, O.
170	1	Hall, Jno. B.	133 Lafayette St.	Buffalo, N. Y.
1153	3	Hamilton, W. D.	2341 S. Lincoln St.	Chicago, Ill.
2110	14	Hamilton, Wm. L.	S. 2nd St.	St. Clair, Mich.
1197	4	Hand, A. S.	533 Harbor St.	Conneaut, O.
1754	1	Hanley, C. C.	371 Falconer St.	N. Tonawanda, N. Y.
1140	1	Hansen, A. C.	2528 Main St.	Buffalo, N. Y.
2004	3	Hansen, Hans	3216 N. Richmond St.	Chicago, Ill.
2085	12	Hansen, Hans C.	3819 West 4th St.	Duluth, Minn.
1612	7	Hansen, J. T.	1900 Scotten Ave.	Detroit, Mich.
1140	3	Hanson, Andrew	3252 Pierce Ave.	Chicago, Ill.
1304	9	Harlow, F. T.	1577 W. 29th St.	Cleveland, O.
553	9	Harlow, W. J.	Mitchell & Co.	Ceveland, O.
641	2	Harper, Geo.	1509 Marquette Ave., W.	Bay City, Mich.
2348	1	Harrison, Wood	49 Spruce St.	Buffalo, N. Y.
388	2	Harrow, W. B.	1049 Warren Ave. W.	Detroit, Mich.
155	7	Hart, Fred C.	257 Forest Ave., West	Detroit, Mich.
2105	14	Hartman, A.	921 E. 105th St.	Cleveland, O.
1187	1	Hartman, Jno. J.	36 Lafayette Ave.	Buffalo, N. Y.
506	4	Hawgood, A. H.	220 Perry-Payne Bldg.	Cleveland, O.
2404	2	Hayes, John E.	202 Glenwood Ave.	Port Huron, Mich.
1159	1	Hayes, W. J.	235 Broad St.	Tonawanda, N. Y.
1884	6	Hays, Jno. C.	General Delivery	Menominee, Mich.
1924	14	Hayward, E. H.	R. F. D. 2	St. Clair, Mich.
1834	14	Hayward, Geo.	76 Walnut St.	Ashtabula, O.
2242	1	Healy, James J.	2203 Seneca St.	Buffalo, N. Y.
1811	1	Heaney, Jno. C.	47 Barry Pl.	Buffalo, N. Y.
1106	4	Heaton, C. H.	1426 West 107th St.	Cleveland, O.
2252	12	Hector, Fred	1017 East 3rd St.	Duluth, Minn.
1728	1	Hefferman, Jas.	68 Seymour St.	Tonawanda, N. Y.
1760	1	Hefferman, T. N.	39 Grove St.	Tonawanda, N. Y.
1773	11	Hemenger, F. R.		Algonac, Mich.
1502	2	Hendricks, Edw.	578 Townsend Ave.	Detroit, Mich.
1527	6	Hendricksen, O.	Milwaukee Tug Boat Office	Milwaukee, Wis.
2140	8	Henry, A. W.	Box 42	Marine City, Mich.
1963	1	Heppner, Phillip	376 Adams St.	Tonawanda, N. Y.

Pennant	Lodge	Name	Address	City
1029	1	Herbert, Fred	....Care Lighthouse Inspector	Buffalo, N. Y.
1497	1	Herbert, J. G.	....Care John Perew, 317 Chamber of Commerce	Buffalo, N. Y.
1136	4	Hergenrother, J.	..3266 W. 82nd St.	Cleveland, O.
826	9	Herrick, T. C.	....3368 Cherry St.	Toledo, O.
1721	8	Hetherington, N. M.	341 Main St.	Marine City, Mich.
1359	3	Higgie, J. F.	.....136 S. Waller Ave.	Austin, Ill.
362	3	Higgins, Thos. J.	...302 N. Lockwood, Austin Sta.	Chicago, Ill.
1421	8	Hill, Fred C.		Marine City, Mich.
2318	17	Hill, Ira D.		Midland, Ont.
2381	3	Hillstrand, H.	.....2200 North 5th Ave.	Chicago, Ill.
391	4	Hinslea, C. H.	....2836 Franklin Ave.	Cleveland, O.
1184	4	Hinslea, Henry	..1522 Robinwood Ave.	Lakewood, O.
1004	4	Hoag, W. S.	.....1940 W. 74th St.	Cleveland, O.
881	7	Hoffman, Frank	..218 Vinewood Ave.	Detroit, Mich.
22	1	Hogg, G. L.	.....4169 S. Halsted St.	Chicago, Ill.
2206	15	Hogue, Archie	....R. R. No. 7	Owen Sound, Ont.
666	7	Holbrook, T. H.	...291 Whitney Ave.	Detroit, Mich.
1553	4	Holdridge, Geo.	..R. F. D. No. 3	Geneva, O.
1820	14	Hollingshead, J.		Vernalas, Cal.
1946	9	Holman, Henry	..2112 Chase St.	Toledo, O.
1756	1	Holmberg, H.	.....217 Auburn Ave.	Buffalo, N. Y.
1887	4	Holmes, A. W.	...10403 Euclid Ave., S. 1	Cleveland, O.
269	4	Holmes, J. A.	....307 Superior Ave.	Cleveland, O.
2184	6	Holt, Carl A.		Sturgeon Bay, Wis.
1602	7	Holt, Jas. G.	.....205 Old Custom House	Detroit, Mich.
1832	7	Honner, G. W.	....471 Delaware Ave.	Detroit, Mich.
160	4	Hoover, N. E.	....9715 Madison Ave. N. W.	Cleveland, O.
1707	7	Hormig, W. F.	....71 Highland Ave.	Highland Park, Mich.
1547	7	Hosner, V. L.		Romeo, Mich.
1018	3	Howard, Martin	..4754 Union Ave.	Chicago, Ill.
1091	1	Howe, A. B.	.....226 Gettysburg Ave.	Dayton, O.
1878	6	Hoxie, A. K.	.....511 N. Charles St.	Ludington, Mich.
2041	12	Hoy, W. E.	.....212 W. Superior St.	Duluth, Minn.
572	3	Hubbard, C. H.	...Care Light House Inspector	Milwaukee, Wis.
2320	17	Hudson, A. A.	....Box 299	Midland, Ont.
2321	17	Hudson, J. H.	..Box 335	Midland, Ont.
1555	2	Hughes, H. S.	....191 Vandervoort St.	No. Tonawanda, N. Y.

Pennant	Lodge	Name	Address	City
2116	4	Hughes, Joseph	727 East 120th St.	Cleveland, O.
264	4	Humphrey, W. H.	558 E. 102nd St.	Cleveland, O.
1017	4	Hunt, W. J.	1528 Lauderdale Ave.	Lakewood, O.
1851	7	Huntoon, Fred A.	121½ Lawton St.	Detroit, Mich.
893	7	Hursley, J.	126 Park Pl.	Sault Ste. Marie, Mich.
987	7	Hutchins, F. C.		S. Rockwood, Mich.
2082	1	Hutchins, H. J.	93 Elk St.	Buffalo, N. Y.
528	7	Hutton, Jno. T.	69 McLean Ave.	Highland Park, Mich.
1443	7	Iler, W. C.	212 24th St.	Detroit, Mich.
1035	4	Ingraham, F. E.	221 S. 5th St.	Alhambra, Cal.
15	7	Ivers, J. H.	363 Commonwealth Ave.	Detroit, Mich.
1479	11	Jackson, R. C.	Box 135	Algonac, Mich.
1208	3	Jacobson, J. E.	4706 Grand Ave., W.	Duluth, Minn.
1909	3	Jaenke, Herman	10436 Avenue M.	Chicago, Ill.
1852	7	Jagenow, Wm.	922 Mt. Elliott Ave.	Detroit, Mich.
2241	2	Jamison, A. W.	1115 Elmwood St.	Pt. Huron, Mich.
481	6	Jamieson, Wm.	357 3rd Ave.	Milwaukee, Wis.
2014	1	Jansen, J. C.	25 Mesmer Ave.	Buffalo, N. Y.
359	3	Jenks, Jno.	5735 Normal Blvd.	Chicago, Ill.
1906	6	Jenkyn, Alex.	176 Bridge St.	Ashtabula, O.
2149	14	Jerome, W. R.	230 9th St.	St. Clair, Mich.
2317	17	Jewell, W. J.	Dominion St.	Midland, Ont.
1131	9	Jex, H. N.	1749 Summit St.	Toledo, O.
2287	12	Johns, J. F.		Grand Marais, Minn.
1081	7	Johnson, Alex	1009 9th St.	Bay City, Mich.
1976	1	Johnson, Alfred	66 Eugene St.	Kenmore, N. Y.
1603	3	Johnson, Carl	3417 Palmer St.	Chicago, Ill.
2061	3	Johnson, Geo. E.	512 5th Ave.	Traverse City, Mich.
2044	12	Johnson, Henry	470 W. 7th St.	Superior, Wis.
394	1	Johnson, Jno.	Frontier Engine Works, Foot Illinois St.	Buffalo, N. Y.
1394	4	Johnson, Martin	10122 Olivet Ave. N. E.	Cleveland, O.
1604	3	Johnson, Martin	102 N. Ashland Ave.	LaGrange, Ill.
2212	6	Johnson, Oscar	614 Cushman St.	Marinette, Wis.
2291	4	Johnson, Roy E.	765 Central Ave.	Cleveland, O.
1481	11	Johnson, Wm. H.	666 Pennsylvania Ave.	Detroit, Mich.
1014	2	Johnston, Edw.	R. F. D. 2, Box 266	Geneva, O.
1793	2	Johnston, Jas.	10604 Cedar Ave.	Cleveland, O.
1330	4	Johnston, J. M.	1579 Bonnie View Ave.	Lakewood, O.
1767	2	Johnston, Martin	2120 8th St.	Pt. Huron, Mich.
1020	4	Jollie, Richard		Jefferson, O.

Pennant	Lodge	Name	Address	City
2024	12	Jones, A. M.	1001 Torrey Bldg.	Duluth, Minn.
1988	7	Jones, C. A.		Canet Colony, Minas, Cuba, Province of Carnaguey
1451	3	Jones, Harry	122 Woodside Ave.	Buffalo, N. Y.
1115	4	Jones, Jno. F.	5806 Clinton Ave.	Cleveland, O.
1534	6	Jones, Warren	Milwaukee Tug Line	Milwaukee, Wis.
1798	7	Judson, H. W.	239 Rosedale Ct.	Detroit, Mich.
865	7	July, Edw. F.	1515 Rosemont Ave.	Chicago, Ill.
2247	4	Kane, R. L.	1728 London Rd.	Duluth, Minn.
1690	6	Kearns, Chas. J.	791 33rd St.	Milwaukee, Wis.
1122	7	Kearns, Joseph	139 Oak St.	Wyandotte, Mich.
1442	4	Keller, A. B.	13935 Euclid Ave.	East Cleveland, O.
1578	1	Kelley, A.	51 Kenefick Ave.	Buffalo, N. Y.
1237	4	Kelley, H. T.	1068 East 99th St.	Cleveland, O.
1240	2	Kelley, Jas. W.	2021 7th St.	Pt. Huron, Mich.
1772	11	Kendall, Douglas	963 W. 4th St.	Erie, Pa.
1606	8	Kendall, Geo. B.		Algonac, Mich.
89	2	Kendall, H. J.	Box 32	Marysville, Mich.
1625	7	Kennedy, Jas.	703 Whitney Bldg.	Detroit, Mich.
2395	1	Kennedy, John	456 Massachusetts Ave.	Buffalo, N. Y.
2380	4	Kentosh, M. J.	High St.	Fairport Harbor, O.
1776	11	Kenworthy, S.	Box 212	Algonac, Mich.
1915	14	Kenyon, Wm. S.	R. F. D. 4	St. Clair, Mich.
1650	1	Kerr, Harry	117 S. Division St.	Buffalo, N. Y.
1863	10	Kiah, Jr., David	94 Green St.	Ogdensburg, N. Y.
2255	6	Kiel, Wm. T.	718 Oregon St.	Oshkosh, Wis.
1746	10	Kinch, Geo. H.	85 New York Ave.	Ogdensburg, N. Y.
1229	8	Kinyon, S. D.	128 Bridge St.	Marine City, Mich.
1266	9	Kirker, Fred	9424 Budlong Ave.	Los Angeles, Cal.
1785	7	Klinger, Geo. M.	1079 Van Dyke Ave.	Detroit, Mich.
1388	1	Klock, E. M.		Three Mile Bay, N. Y.
1661	2	Knapp, R. H.	2313 Elk St.	Pt. Huron, Mich.
1687	1	Koch, Robt.	451 Dodge St.	Buffalo, N. Y.
1437	3	Kohnert, J. E.	117 E. 36th Place	Chicago, Ill.
1998	2	Krenkel, Chas.	2035 8th St.	Pt. Huron, Mich.
2226	6	Kruwell, W. E. H.	1252 2nd St.	Milwaukee, Wis.
1243	8	Kuhn, John	Pearl & Main Sts.	Marine City, Mich.
2091	8	Laffrey, Delos		Marine City, Mich.
1879	6	LaFleur, W. H.	302 N. Robert St.	Ludington, Mich.
557	2	Laframboise, J.		Amherstburg, Ont.
1010	4	Laframboise, J.	5647 Sunset Blvd.	Los Angeles, Cal.

Pennant	Lodge	Name	Address	City
2352	10	Lago, Thomas	155 Green St.	Ogdensburg, N. Y.
2322	17	Laking, A. E.	Box 143	Midland, Ont.
810	4	Lalonde, Anthony	1766 Fulton Rd.	Cleveland, O.
2136	9	Lamb, Harry	1315 Mason St.	Toledo, O.
1381	3	Lamoreaux, Jos.	6724 Champlain Ave.	Chicago, Ill.
960	4	Lampoh, Jos.	14304 Detroit St.	Lakewood, O.
1295	4	Landfair, B.	1438 W. 77th St.	Cleveland, O.
1617	3	Lang, Julius	2229 Eastwood Ave.	Chicago, Ill.
2000	8	Langell, L. P.	Cor. Pearl & Elizabeth Sts.	Marine City, Mich.
2213	8	Langell, Thomas	R. F. D. No. 1	Marine City, Mich.
2301	10	Larosee, Hector	S. S. Omaha, Canal Off.,	Cornwall, Ont.
2211	6	Larsen, J. L.	215 Hosmer St.	Marinette, Wis.
2111	1	Larson, John A.	83 East Seneca St.	Buffalo, N. Y.
1765	6	Larson, N. L.	552 29th Ave.	Milwaukee, Wis.
1206	6	Larson, P.	3528 W. Belden Ave.	Chicago, Ill.
2146	7	Loughin, G. F.	1557 W. Grand Blvd.	Detroit, Mich.
2375	12	LaVaque, J. C.	429 East Second St.	Duluth, Minn.
2012	1	Lavell, Nels	94 Harriet St.	Tonawanda, N. Y.
1967	8	Lavely, L. J.		Marine City, Mich.
2311	17	Lavigne, Wm. A.	Box 647	Midland, Ont.
2299	14	Lawrence, Earl J.		East China, Mich.
2248	15	Leaney, Harry	1568 3rd Ave.	East Owen Sound, Ont.
1352	4	Leckie, Fred	1020 Rockefeller Bldg.	Cleveland, O.
1678	6	Lee, I. M.	322 Neva Pl.	Los Angeles, Cal.
2323	17	Legree, Joseph	Manly St.	Midland, Ont.
498	6	Leisk, Jno.	730 Wilson St.	Milwaukee, Wis.
500	6	Leisk, Henry	16 Kenwood Ave.	Wauwatosa, Wis.
2260	6	Leisk, Henry A.	683 Murray Ave.	Milwaukee, Wis.
1285	3	Leith, Alex.	2100 N. Albany Ave.	Chicago, Ill.
1996	3	Leith, W. R.	2100 N. Albany Ave.	Chicago, Ill.
1688	7	Leonard, R. M.		New Baltimore, Mich.
1734	10	Leonard, M. A.	416 Ford St.	Ogdensburg, N. Y.
2342	4	Leroy, T. G.	8811 Detroit Ave.	Cleveland, O.
2300	4	Levis, George	1329 West 87th St.	Cleveland, O.
2181	12	Lewis, Frank		Dundee, Mich.
1424	4	Light, F. W.		Perry, O.
1901	7	Lightbody, J.	164 Holbrook Ave.	Detroit, Mich.
2005	3	Lindale, T. T.	4904 Byron St.	Chicago, Ill.
2183	14	Linton, Walter E.		Mooretown, Ont.
1774	11	Little, Nelson T.		Algonac, Mich.

Pennant	Lodge	Name	Address	City
2195	7	Littlejohn, Wm.	1265 Iroquois Ave.	Detroit, Mich.
750	7	Livingstone, W., Jr.	2217 Dime Savings Bank Bldg.	Detroit, Mich.
2038	12	Lloyd, W. S.	1001 Torrey Bldg.	Duluth, Minn.
2336	8	Lockhart, Asa	544 Woodworth Ave.	Marine City, Mich.
1079	9	Lockhart, D. O.	Box 739	River Rouge, Mich.
283	3	Loftus, H. F.		Walworth, Wis.
1789	4	Logan, J. A.	4008 Archwood Ave.	Cleveland, O.
603	7	Lohr, Edw.		Caseville, Mich.
1559	9	Lohr, J. M.		Marine City, Mich.
2243	2	Lott, E. O.	360 Wellington St.	Sarnia, Ont.
1800	10	Loveless, Fred	28 Pickering St.	Ogdensburg, N. Y.
182	4	Lowe, J.	1426 Mars Ave.	Lakewood, O.
164	4	Lowe, J. B.	1783 W. 48th St.	Cleveland, O.
1836	14	Lowes, Jos. H.	210 Adams St.	St. Clair, Mich.
1809	1	Lucas, W. J.	50 Greenwood Pl.	Buffalo, N. Y.
1644	7	Ludington, Lewis	212 Forest St., W.	Detroit, Mich.
2173	12	Lyons, G. A.	605 Kimball St.	Sault Ste. Marie, Mich.
1487	9	Lyons, J. B.	1334 6th St.	Lorain, O.
197	4	Lyons, R. J.	1111 W. Erie Ave.	Lorain, O.
1490	11	Lyons, S. A.	917 E. Ann St.	Ann Arbor, Mich.
2224	4	McAlpine, Hugh	1794 W. 47th St.	Cleveland, O.
972	7	McAlpin, Jno.	142 14th Ave.	Detroit, Mich.
78	2	McArthur, Jno.	Box 162, Care S. A. Staton	Sacramento, Cal.
875	7	McCallum, H. C.	1315 Military St.	Port Huron, Mich.
300	3	McCambridge, T.	306 2nd St.	Grand Haven, Mich.
1199	8	McCann, S. B.	201 Market St.	Marine City, Mich.
2201	18	McCannel, J.		Port McNicoll, Ont.
1112	7	McCarthy, D.	45 Dunster Road	Jamaica Plain, Mass.
1631	7	McCarthy, Jno.	Box 11	Sandwich, Ont.
2379	7	McCarthy, J. P.	608 Cass Ave.	Detroit, Mich.
2372	4	McCarthy, Patrick	1575 Northland Ave.	Lakewood, O.
1833	6	McCauley, Chas.	408 Norris St.	Escanaba, Mich.
1682	3	McCauley, C.	229 Mason St.	Milwaukee, Wis.
2283	6	McCauley, J. P.	1388 W. 25th St.	Cleveland, O.
2121	3	McClintock, J.	7710 Ada St.	Chicago, Ill.
1810	1	McClinton, W. D.	346 14th St.	Buffalo, N. Y.
2129	1	McCorkell, W. H.	2545 Main St.	Buffalo, N. Y.
513	6	McCoy, Jno.	667 Mineral St.	Milwaukee, Wis.
2237	15	McCoy, N. J.	71 4th St., E.	Owen Sound, Ont.

Pennant	Lodge	Name	Address	City
2361	16	McDonald, A.	Box 564	Toronto, Ont.
2197	7	McDonald, Fred	292 4th Ave.	Detroit, Mich.
1616	8	McDonald, G. W.	234 N. William St.	Marine City, Mich.
1652	1	McDonald, J. A.	253 Herkimer St.	Buffalo, N. Y.
1725	7	McDonald, J. Alex.	175½ Bruce Ave.	Windsor, Ont.
1160	8	McDonald, J. H.	Box 771	Marine City, Mich.
1799	10	McDonald, Jno.	96 Green St.	Ogdensburg, N. Y.
2161	4	McDonald, J. J.	2556 E. 81st St.	Cleveland, O.
542	3	McDonald, Geo.	4857 No. Winchester Ave.	Chicago, Ill.
1999	2	McDonald, J. E.	713 Willow St.	Pt. Huron, Mich.
2367	16	McDonald, Peter	St. Patrick St.	Goderich, Ont.
1462	4	McDonald, W.	3826 John Ave.	Cleveland, O.
2046	12	McDougall, T.	876 W. 7th St.	Superior, Wis.
2145	7	McDougall, W. L.	263 Meadowbrook St.	Detroit, Mich.
315	1	McEachern, A.	553 West Ave.	Buffalo, N. Y.
1549	4	McEwen, H. W.	1506 W. 28th St.	Cleveland, O.
2016	1	McFadden, W. L.	306 Purdy St.	Buffalo, N. Y.
1530	3	McGannon, W. P.	465 W. 28th St.	Chicago, Ill.
2244	3	McGarrity, D. J.	7348 Perry Ave.	Chicago, Ill.
1557	4	McGarry, Geo.	1378 W. 64th St.	Cleveland, O.
1067	4	McGarry, Jno.	1380 West 59th St.	Cleveland, O.
712	6	McGinn, Jas.	Care Jos. McGinn, Iron Block	Milwaukee, Wis.
2228	4	McGinnis, G. W.	1902 Capitol Ave.	Indianapolis, Ind.
2355	16	McGinnis, J. J.	Box 45	Fort William, Ont.
1937	7	McGowen, Hugh	1309 Lafayette Blvd.	Detroit, Mich.
1315	12	MacGregor, W.	713 H. Ave.	Superior, Wis.
515	6	McGregor, W. F.	Lincoln Apartments, F. 1.	Windsor, Ont.
1052	7	McGuire, N.	810 Ferry Park Ave.	Detroit, Mich.
2209	15	McIntire, A. B.	581 West 13th St.	Owen Sound, Ont.
1065	7	McIntosh, J. L.	520 12th St.	Detroit, Mich.
767	7	McIntosh, M. G.	84 Prentis Ave.	Detroit, Mich.
2312	17	McIntosh, John A.		French River, Ont.
941	3	McIntire, Allen	Care M. F. Morgan, 411 Northwestern Bldg.	Chicago, Ill.
2205	15	McIntire, R.	657 8th St. E.	Owen Sound, Ont.
1873	6	McIsaac, Neil	410 E. Filer St.	Ludington, Mich.
2286	16	McIver, Geo.	361 Wiley St.	Port Arthur, Ont.
2358	16	McIver, John		Southampton, Ont.
2204	15	McKay, Angus	447 14th St. W.	Owen Sound, Ont.
753	7	McKay, Alex. J.	232 Gladstone Ave.	Detroit, Mich.

Pennant	Lodge	Name	Address	City
1854	7	McKay, Daniel	234 Jefferson Ave.	Detroit, Mich.
288	4	McKay, G. P.	17880 Lake Rd.	Lakewood, O.
2203	15	McKay, M.	492 13 A St. W.	Owen Sound, Ont.
2200	15	McKay, Norman	447 14th St. W.	Owen Sound, Ont.
1453	3	McKay, Wm. J.	406 Sylvester Ave.	Detroit, Mich.
2382	1	McKenzie, Alex	969 Niagara St.	Buffalo, N. Y.
1857	3	McKenzie, K.		Tiverton, Ont.
856	9	McKinley, Jas.	1717 Ontario St.	Toledo, O.
1028	7	McLachlan, A.	56 11th St.	Detroit, Mich.
2199	7	McLachlan, D.	622 Rademacher Ave.	Detroit, Mich.
2096	4	McLachlan, W. H.		Wyoming, Ont.
1757	1	McLaren, B. C.	50 Greenwood Pl.	Buffalo, N. Y.
755	7	McLarty, Jas.	417 Avery Ave.	Detroit, Mich.
1504	2	McLean, J. C.	1109 St. Clair St.	Pt. Huron, Mich.
910	7	McLean, Wm.	1437 Westwood Ave.	Lakewood, O.
1814	1	McLeod, Dugald	442 Auburn Ave.	Buffalo, N. Y.
1866	4	McLeod, D. W.	3808 Clinton Ave.	Cleveland, O.
2278	16	McLeod, N. J.	93 Ontario St.	Port Arthur, Ont.
2259	2	McMartin, Frank	117 Smith Ave.	Detroit, Mich.
1761	1	McMaugh, A. A.	130 Riverside Ave.	Buffalo, N. Y.
771	1	McMillan, Chas.	195 So. Elmwood Ave.	Buffalo, N. Y.
	4	McNaughton, R.	First National Bank	Sault Ste. Marie, Mich.
1990	8	McNeill, W. H.	R. F. D. 2	Marine City, Mich.
2296	1	McPherson, A. J.	485 7th St.	Buffalo, N. Y.
1619	3	McQueen, W. A.	Ruthland Transit Co.	Ogdensburg, N. Y.
1561	6	McShane, D. W.		New Auburn, Wis.
507	6	McSweeney, J.	459 Maryland Ave.	Milwaukee, Wis.
1899	7	MacAulay, Geo.	Box 296	Walkerville, Ont.
2340	7	MacDonald, Alex.	263 Meadowbrook Ave.	Detroit, Mich.
1161	7	MacDonald, N.	277 Linwood Ave.	Detroit, Mich.
1763	6	Mackey, Melvin		Sturgeon Bay, Wis.
1415	4	MacLachlan, A. H.	1861 W. 47th St.	Cleveland, O.
543	3	MacLean, D.	R. F. D. 1, Box 79	Michigan City, Ind.
1433	7	MacLean, W. J.	621 Wabash Ave.	Detroit, Mich.
2309	17	MacLennan, A.	Care Midland Queen	Sault Ste. Marie, Ont.
2174	12	MacLeod, A.	528 Federal Bldg.	Chicago, Ill.
1801	3	MacMillan, John	Care Mrs. A. R. MacLeod,	Baddeck Bay, Victoria County, Nova Scotia

Pennant	Lodge	Name	Address	City
2167	3	Madden, John H.	Care Prindiville & Co., Insurance Ex. Bldg.	Chicago, Ill.
113	2	Madden, M. J.	1003 Kearney St.	Pt. Huron, Mich.
2308	17	Madden, W. J.	Church St.	Penetanguishene, Ont.
1194	7	Maddock, J. B.	378 Commonwealth Ave.	Detroit, Mich.
1204	7	Maddock, J. C.	378 Commonwealth Ave.	Detroit, Mich.
891	1	Madigan, Jos. A.	Care Brown & Co.	Buffalo, N. Y.
1073	7	Mahon, A. J.	443 Military Ave.	Detroit, Mich.
1351	4	Mahon, W. M.	Rex Hotel	Eveleth, Minn.
576	2	Maitland, Henry	1026 Wall St.	Pt. Huron, Mich.
1082	7	Mallette, P. A.	369 Hendricks St.	Detroit, Mich.
266	4	Mallory, D. H.	Nat'l Bank of Elyria	Elyria, O.
176	4	Mallory, G. B.	Pickands, Mather & Co.	Cleveland, O.
1926	1	Mallory, R. A.	527 Fargo Ave.	Buffalo, N. Y.
1973	4	Malott, J. W.	Box 25	Ruthven, Ont.
1748	10	Maltby, Wm. G.	41 Mansion Ave.	Ogdensburg, N. Y.
365	3	Mansfield, I. B.	529 Federal Bldg.	Chicago, Ill.
994	2	Manuel, F. W.	2707 Military St.	Pt. Huron, Mich.
732	7	Mara, Jas.	465 Military Ave.	Detroit, Mich.
2359	16	Marcellias, W. C.	118 Peter St.	Port Arthur, Ont.
2225	8	Marcero, A. W.	137 Backus Ave.	Marine City, Mich.
1791	8	Marcero, Chas.		Marine City, Mich.
2267	16	Marin, O. P.	383 Van Norman St.	Port Arthur, Ont.
1402	8	Markle, S. J.	4 Westminster Ave.	Detroit, Mich.
1941	6	Marsh, S. O.		Perrysburg, Wood Co., O.
1047	1	Martin, Edw.	308 Purdy St.	Buffalo, N. Y.
2391	4	Martin, Peter J.	5704 Longfellow Ave.	Cleveland, O.
1704	4	Mason, Chas. D.	1113 Rockefeller Bldg.	Cleveland, O.
1790	1	Massey, Chester	1927 Hughitt Ave.	Superior, Wis.
1685	4	Massey, S. B.	1501 Clarence Ave.	Lakewood, O.
2099	3	Matson, S. W.	1247 Monticello Ave.	Chicago, Ill.
1226	8	Mattison, E. F.	Care D. & W. Ferry Co.	Detroit, Mich.
477	6	Maxon, F. C.	83 31st St.	Milwaukee, Wis.
1276	8	Maxwell, Wm.		Marine City, Mich.
191	2	May, A. C.	1912 7th St.	Pt. Huron, Mich.
1580	4	Meeker, S. E.	1454 Orchard Grove Ave.	Lakewood, O.
988	4	Megervey, Wm.	1424 W. 75th St.	Cleveland, O.
613	9	Meikleham, Thos.	641 Fernwood Ave.	Toledo, O.
2124	6	Mellan, Gunerius	406 Scott St.	Milwaukee, Wis.
1919	14	Meno, F. L.	402 Thornapple St.	St. Clair, Mich.
1582	7	Merckel, C. G.	122 Stanton Ave.	Detroit, Mich.

Pennant	Lodge	Name	Address	City
1698	3	Meyer, Gust	3826 N. Whipple St.	Chicago, Ill.
1978	9	Millard, R. B.	Great Lakes Towing Co.	Toledo, O.
1836	2	Millard, W. L.	502 16th St.	Pt. Huron, Mich.
1175	7	Millen, P. L.		Romeo, Mich.
671	7	Millen, Wm. F.		Romeo, Mich.
675	4	Miller, C. D.	213 Lincoln Ave.	N. Tonawanda, N. Y.
1695	1	Miller, Chas. F.	Dunham Towing & Wrecking Co.	South Chicago, Ill.
2112	6	Miller, Christian	348 Madison St.	Milwaukee, Wis.
2376	12	Miller, Thos.	1324 Jefferson St.	Duluth, Minn.
1587	4	Milliken, Wm.	1956 W. 47th St.	Cleveland, O.
1562	1	Milne, J.	234 Grant St.	Buffalo, N. Y.
450	3	Minskey, J. P.	2464 Orchard St.	Chicago, Ill.
1170	3	Minter, Thos. B.	1235 Otis St.	Chicago, Ill.
2330	15	Misner, Robt.	232 Brown St.	Steelton, Ont.
798	4	Mitchell, Alfred	1504 Rockefeller Bldg.	Cleveland, O.
1781	11	Mitchell, Alvin		Algonac, Mich.
1904	8	Mitchell, D. R.	Box 629	Marine City, Mich.
2392	7	Mitchell Harry	95 Riopelle St.	River Rogue, Mich.
302	4	Mitchell, Jno.	908 Rockefeller Bldg.	Cleveland, O.
2198	4	Moes, W. H.	3828 Leading Ave.	Cleveland, O.
2158	2	Montgomery, G. A.	1201 Howard St.	Port Huron, Mich.
1817	1	Montgomery, J. A.	81 Greenfield St.	Buffalo, N. Y.
1155	1	Montgomery, J. W.	79 Greenfield St.	Buffalo, N. Y.
656	2	Montgomery, W. L.		Blaine, Mich.
1032	6	Moody, C. E.	92 33rd St.	Milwaukee, Wis.
959	4	Moody, W. H.		Vermilion, O.
1675	4	Mooney, Wm.	4908 Franklin Ave.	Cleveland, O.
412	3	Moore, C. K.	Care J. Massey, 927 Hughitt Ave.	Superior, Wis.
1572	4	Moore, Frank	2139 West 103rd St.	Cleveland, O.
1821	4	Moore, Geo. W.	1406 W. 54th St.	Cleveland, O.
254	3	Moore, H. R.	6919 Wayne Ave., Rogers Park	Chicago, Ill.
992	3	Moore, J. F.	743 Oakley Blvd.	Chicago, Ill.
1778	11	Moore, S. D.		Algonac, Mich.
1622	4	Moore, S. S.	6903 Wakefield Ave.	Cleveland, O.
1702	4	Moore, Wm. E.	1848 W. 54th St.	Cleveland, O.
355	4	Morgan, J. W.	Box 503	Geneva, O.
1724	3	Morgan, M. F.	2115 Summerdale Ave.	Chicago, Ill.
1995	1	Morin, Thos. F.	314 Fargo Ave.	Buffalo, N. Y.

Pennant	Lodge	Name	Address	City
2144	7	Morrison, A. A.	207 Western Reserve Bldg.	Cleveland, O.
2268	16	Morrison, Angus	50 Jean St.	Port Arthur, Ont.
2010	3	Morrison, Dougal	401 Rush St.	Chicago, Ill.
2118	11	Morrison, E. R.	368 Fargo Ave.	Buffalo, N. Y.
1694	7	Morrison, J. N.	32 Calvert Ave.	Detroit, Mich.
2199	4	Morrison, Wm. F.	1642 Lincoln Ave.	Lakewood, O.
1964	14	Morse, A. R.	107 S. 9th St.	St. Clair, Mich.
1713	4	Morton, Edw. R.	1671 E. 85th St.	Cleveland, O.
822	2	Mosier, R. H.	624 S. Main St.	Cheboygan, Mich.
339	4	Mulholland, M.	Care M. A. Bradley, 706 Marion Blk.	Cleveland, O.
2370	12	Munro, Wm. J., Jr.	2058 Carroll Ave.	St. Paul, Minn.
1538	4	Murdock, Jno.	613 5th Ave. E.	Ashland, Wis.
2294	1	Murphy, Charles	228 Georgia St.	Buffalo, N. Y.
2306	17	Murphy, E. W.		Midland, Ont.
108	1	Murphy, Henry	60 Verplank St.	Buffalo, N. Y.
1736	10	Murphy, H. A.	119 Caroline St.	Ogdensburg, N. Y.
2039	12	Murphy, Oswald	205 St. Clair St.	Ashland, Wis.
129	1	Murphy, S. M.	826 Williamson Bldg.	Cleveland, O.
2164	14	Mussman, A.	901 South 7th St.	St. Clair, Mich.
2284	2	Myers, Geo. F.	379 Falconer St.	N. Tonawanda, N. Y.
1962	1	Myers, R. D.	35 Delaware St.	Tonawanda, N. Y.
2324	17	Napier, Jos.	Main St.	Penetanguishene, Ont.
1109	2	Neal, Jas. S.		Marine City, Mich.
1209	2	Neal, Wm. D.	Box 21	Courtwright, Ont.
1740	10	Nelson, A. C.	Hinkley-Cornwell Co.	Alexander Bay, N. Y.
1737	10	Nelson, C. O.	53 Rensselaer Ave.	Ogdensburg, N. Y.
2132	12	Nelson, F. E.		Detour, Mich.
1804	4	Nelson, Olaf	3722 W. 36th St.	Cleveland, O.
2092	4	Nelson, S.	5819 Bridge Ave.	Cleveland, O.
1829	7	Nesbitt, Wm. K.	Care Great Lakes Eng. Works, Steamer Colonel.	River Rouge, Mich.
2351	12	Ness, Martin O.	3203 W. Vernon St.	Duluth, Minn.
2394	6	Neubauer, W. E.	904 Bartlett St.	Milwaukee, Wis.
2134	4	Neville, R. J.	2080 West 89th St.	Cleveland, O.
2326	17	Nicholls, Bruce	5th St.	Midland, Ont.
464	7	Nicholson, D.	Foot Woodward Ave., D. B. I. & W. Ferry Co.	Detroit, Mich.
1865	4	Noble, Jno.	1426 Northland, Ave.	Lakewood, O.
2208	15	Nolan, Dan	835 11th St.	West Owen Sound, Ont.

Pennant	Lodge	Name	Address	City
1395	4	Nordahl, Arnold	2908 Carroll Ave.	Cleveland, O.
2343	6	Norteman, L. W.	1509 Michigan Ave.	Manitowoc, Wis.
1623	7	Norvell, Walker	288 Pingree Ave.	Detroit, Mich.
2272	16	Nuttall, A. S.	181 Arthur St.	Port Arthur, Ont.
2271	16	Nuttall, R. E.	212 St. James St.	Port Arthur, Ont.
2270	16	Nuttall, Wm.	11 Nugent St.	Port Arthur, Ont.
1818	6	Oakley, Jas.	425 N. 8th St.	Manitowoc, Wis.
350	14	O'Connor, R.	525 N. Second St.	St. Clair, Mich.
1169	1	O'Day, Simon	729 Prospect Ave.	Buffalo, N. Y.
1888	7	Ogden, Benj. F.	817 Trumbull Ave.	Detroit, Mich.
1753	1	O'Hagan, Hugh	220 Grove St.	Tonawanda, N. Y.
1726	1	O'Hagan, Jno.	144 Grove St.	Tonawanda, N. Y.
2350	1	Oliver, Percy	379 Elk St.	Buffalo, N. Y.
1444	3	Olsen, Jno. K.	Care Lighthouse Inspector, 216 Federal Bldg.	Milwaukee, Wis.
358	4	Olsen, Olaf	1375 E. 95th St.	Cleveland, O.
1720	4	Olsen, Oscar	1699 Lee Rd.	Cleveland Hts., O.
1148	6	Olson, Sam, No. 2.	827 N. 9th St.	Manitowoc, Wis.
1860	6	Olson, Sam	469 25th Ave.	Milwaukee, Wis.
2256	7	Oman, Chas. H.	U. S. S. Crocus Is. Light House Inspector	Buffalo, N. Y.
1179	1	O'Neil, Patrick	60 Morgan St.	Buffalo, N. Y.
2239	15	Olstrom, G. C.	616 7th St. A. East	Owen Sound, Ont.
1482	4	Packer, W. H.	433 W. 1st Ave.	Columbus, O.
2053	6	Palm, Edw.	1240 Island Ave.	Milwaukee, Wis.
1896	7	Palmer, A. J.	541 Townsend Ave.	Detroit, Mich.
1981	3	Pardee, J. F.	256 W. 3rd St.	Erie, Pa.
1233	7	Parsons, D. R.	1083 E. Grand Blvd.	Detroit, Mich
1182	7	Parsons, H. H.	262 Collingwood Ave.	Detroit, Mich.
1201	7	Parsons, Jos.	2141 John R. Ave.	Detroit, Mich.
2279	7	Parsons, Jos. W.	57 Belmont Ave.	Detroit, Mich.
1185	4	Parsson, F.	2065 W. 45th St.	Cleveland, O.
2302	10	Patenaude, A.	754 Papineau Ave.	Montreal, Que.
1788	1	Patterson, R. C.	63 Baynes St.	Buffalo, N. Y.
1269	3	Patterson, Wm.	10455 Ewing Ave.	S. Chicago, Ill.
2088	7	Pauls, F. H.	315 Cherry St.	Detroit, Mich.
1826	7	Pearson, Jno. J.	446 Bewick St.	Detroit, Mich.
2333	15	Pearson, J. P.		Port McNicoll, Ont.
1792	7	Peltier, R. D.	R. F. D. 4	Mt. Clemens, Mich.
1807	4	Perew, F. D.	River St.	Willoughby, O.

Pennant	Lodge	Name	Address	City
381	1	Perew, John	317 Chamber of Commerce	Buffalo, N. Y.
2165	11	Perkins, H. L.	117 North Line	Wyandotte, Mich.
2147	7	Perrault, Albert	58 Cicotte St.	River Rouge, Mich.
2053	6	Peterson, F. J.	Care Rogers Coal Co.	Toronto, Ont.
695	4	Peterson, C. A.	112 Reese St.	Sandusky, O.
624	4	Peterson, Henry	Beulah Ave.	Pueblo, Colo.
2216	3	Peterson, Martin	1108 N. Mozart St.	Chicago, Ill.
1392	1	Peterson, M. S.	94 Triangle St.	Buffalo, N. Y.
1329	4	Peterson, P. A.	10614 Garfield Ave.	Cleveland, O.
1607	3	Peterson, T. J.	18 Lake St.	Manistee, Mich.
2253	6	Petroskey, W. J.	1010 S. Main St.	Manitowoc, Wis.
2188	1	Phillips, J. J.	87 Kohler St.	Tonawanda, N. Y.
1524	7	Pickell, E. S.	Str. City of Erie	Cleveland, O.
1667	12	Pierce, W. L.	4021 W. 5th Ave.	Duluth, Minn.
2377	4	Pilzer, W. J.	102 McEwen St.	Sandusky, O.
2288	12	Pinney, Jesse	123 S. Michigan Ave.	Duluth, Minn.
2133	8	Piotter, Chas. L.	225 2nd St.	Marine City, Mich.
2232	4	Pitts, Oliver	1249 Andrews Ave.	Lakewood, O.
1541	7	Pocock, H. A.	521 Lansing Ave.	Detroit, Mich.
2281	9	Pocock, Robert J.	3126 Glenwood Ave.	Toledo, O.
1039	4	Post, Jos. W.		Sandusky, O.
1858	3	Post, Samuel	1536 Congress St.	Chicago, Ill.
1738	10	Powers, Jno.	33 Buck St.	Canton, N. Y.
140	2	Powrie, P. F.	1131 Howard St.	Pt. Huron, Mich.
2222	12	Pratt, Frank C.		Ford City, Ont.
1344	6	Preston, J. R.	785 So. 12th St.	Newark, N. J.
229	14	Pringle, Jno. C.	561 Riverside Ave.	St. Clair, Mich.
1528	4	Pringle, R. C.	1516 Arthur Ave.	Lakewood, O.
2138	4	Pringle, W. R.	1516 Arthur Ave.	Lakewood, O.
2398	6	Quackenbush, E.	1260½ Island Ave.	Milwaukee, Wis.
1256	7	Quinlan, Wm.	742 14th Ave.	Detroit, Mich.
558	4	Rae, Frank C.	Avon Park	DeSoto Co., Fla.
177	4	Rae, F. H.		Vermilion, O.
1284	7	Rains, E. T.	Buffalo Union Furnace Co.	Buffalo, N. Y.
1043	3	Rand, L. A.	511 Park Ave.	Wilmette, Ill.
1522	4	Randall, A. E.	17 Pennsylvania Ave.	Ashtabula, O.
1590	2	Randall, F.	1011 Lapeer Ave.	Port Huron, Mich.
2289	12	Rankin, A. E.	Box 435	Two Harbors, Minn.
1435	7	Rattray, C.	540 Holden Ave.	Detroit, Mich.
2261	4	Rattray, E. G.	1078 Addison Rd.	Cleveland, O.

Pennant	Lodge	Name	Address	City
1848	8	Recor, Edgar		Marine City, Mich.
1434	7	Recor, Geo. F.	665 Sheridan Ave.	Detroit, Mich.
2389	14	Recor, Joseph F.		Wallaceburg, Ont.
1842	8	Recor, Robt. J.	658 Baldwin Ave.	Detroit, Mich.
1635	6	Redner, Elmer	Care Goodrich Line Co.	Muskegon, Mich.
1105	14	Reece, G. O.	1008 Clinton Ave.	St. Clair, Mich.
1254	2	Reed, Wm. A.	412 Main St.	Conneaut, O.
443	3	Regan, Jno.	848 E. 64th Pl.	Chicago, Ill.
1307	4	Reid, F. H.	1698 W. 69th St.	Cleveland, O.
1171	3	Reid, Jr., Robt.	1708 Melrose Ave.	Chicago, Ill.
1711	4	Reid, Wm. C.	2049 W. 95th St.	Cleveland, O.
2347	7	Reilly, Wm. S.	819½ Meldrum St.	Detroit, Mich.
708	4	Rice, Frank	4208 John Ave. N. W.	Cleveland, O.
782	8	Rice, Philip	Box 242	Blenheim, Ont.
1936	6	Richardson, Frank	501 Ellen St.	Milwaukee, Wis.
133	1	Richardson, H.		East Aurora, N. Y.
2269	16	Richmond, U. G.	98 Regent St.	Port Arthur, Ont.
2239	4	Rinn, Chas.	3803 Carnegie Ave.	Cleveland, O.
1950	14	Rinn, J. B.	509 2nd St.	St. Clair, Mich.
2006	1	Rinn, Wm.	1450 Cullon Ave.	Chicago, Ill.
2258	3	Risto, E.	34 West 26th St.	Holland, Mich.
1843	4	Ritchie, W. S.	Care Brown & Co.	Buffalo, N. Y.
287	3	Roach, P. C.	842 Wells St., Care Scully Bros.	Chicago, Ill.
279	1	Robarge, G. E.		Caruthersville, Mo.
2385	12	Roberts, B. J.	Care Clow & Nicholson	Duluth, Minn.
902	3	Robertson, G.	515 LaFayette St.	Grand Rapids, Mich.
2303	10	Robineau, Alban	106-B Marquette St.	Montreal, Que.
1283	4	Robinson, A. R.	1440 Woodward Ave.	Lakewood, O.
2341	4	Robinson, F. A.	2110 W. 93rd St.	Cleveland, O.
1710	4	Robinson, J. W.	R. F. D. 1	Sandusky, O.
1377	7	Robinson, Salem	622 Lathrop Ave.	Detroit, Mich.
49	1	Robinson, Walter	326 15th St.	Buffalo, N. Y.
2177	6	Roddy, Timothy	506 N. State St.	Chicago, Ill.
2120	11	Roe, Stephen J.		Algonac, Mich.
1756	1	Rolseng, Iver	937 Michigan Ave.	Buffalo, N. Y.
56	3	Root, F. D.		Sault Ste. Marie, Mich.
1947	9	Rose, Otto	935 Palmwood Ave.	Toledo, O.
2065	6	Rosie, Wm.	619 Lafayette St.	Grand Haven, Mich.
1103	6	Ross, C. D.	24 Cleveburn Pl.	Buffalo, N. Y.

Pennant	Lodge	Name	Address	City
2230	4	Rourke, John	2076 W. 26th St.	Cleveland, O.
821	1	Rowan, Murdock	695 Main St.	Conneaut Harbor, O.
2143	10	Russell, F. P.	17 New York Ave.	Ogdensburg, N. Y.
1741	10	Russell, Henry	117 Morris St.	Ogdensburg, N. Y.
2339	10	Russell, Wm. R.	83 Jersey Ave.	Ogdensburg, N. Y.
2229	4	Rydholm, C. A.	920 Lee St.	Marquette, Mich.
843	9	Sage, Geo. V.	655 S. Main St.	Toledo, O.
1905	6	Sanders, H. L.	649 Frederick Ave.	Milwaukee, Wis.
546	4	Sanders, Jos.	5208 Tillman Ave.	Cleveland, O.
1088	4	Sanders, T. H.	1612 Rockefeller Bldg.	Cleveland, O.
223	4	Saph, C. M.	715 North 8th St.	Sheboygan, Wis.
1472	4	Saph, J. P.	128 A St.	Lorain, O.
1897	7	Sauer, Geo.	34 Farrand Ave. E., Station C	Detroit, Mich.
1413	1	Saunders, J. M.	234 Berlin St.	Buffalo, N. Y.
1732	2	Sawyer, E. S.		Almont, Mich.
2373	4	Scheible, H. J.		Put-in-Bay, O.
496	6	Schwerman, Fred.	R. R. 3, Box 50 Station D	Milwaukee, Wis.
2356	16	Scott, J. A.		Victoria Harbor, Ont.
509	6	Scott, W. B.	488½ Walker St.	Milwaukee, Wis.
1313	1	Secord, C. D.	39 Howland Pl.	Buffalo, N. Y.
2175	12	Seeley, H. D.	1705 Ogden Ave.	Superior, Wis.
2156	3	Seiderland, F. A.	Barge Office	Chicago, Ill.
2383	1	Sellon, Harry D.	Care Connelly Bros.	Buffalo, N. Y.
751	7	Sennon Wm.	197 W. Seneca St.	Oswego, N. Y.
1959	1	Sexsmith, Samuel	1391 W. 64th St.	Cleveland, O.
1648	1	Shaw, Edw. L.	71 Hoyt St.	Buffalo, N. Y.
799	8	Shaw, Geo. A.		Marine City, Mich.
55	10	Shay, W. S.	76 Patterson St.	Ogdensburg, N. Y.
1638	3	Shea, Jos. A.	208 S. LaSalle St., Care Armour Grain Co.	Chicago, Ill.
566	1	Shepard, A. M.	Bedford Hotel	Goderich, Ont.
54	4	Sherwood, D. N.	15501 Hilliard Ave.	Lakewood, O.
2190	2	Sills, Arthur G.	2841 Stone St.	Port Huron, Mich.
1784	3	Simons, Jno.	307 East N. Water St.	Chicago, Ill.
1550	4	Simmons, T. G.	15709 Lake Ave.	Lakewood, O.
1466	7	Simpson, F. J.	911 Baldwin Ave.	Detroit, Mich.
1362	3	Sinclair, C. H.	2037 Military St.	Pt. Huron, Mich.
377	2	Sinclair, D. M.	2037 Military St.	Pt. Huron, Mich.

Pennant	Lodge	Name	Address	City
1104	2	Sinclair, J. H.	The Thomas Furniture Co.	Pontiac, Mich.
632	7	Skiffington, J. A.	364 Seyburn Ave.	Detroit, Mich.
850	4	Slackford, W. G.	309 Campbell St.	Sandusky, O.
2390	4	Slade, J. J.	72 Station St.	Ashtabula, O.
2027	12	Slater, F. R.	6209 Ogden Ave.	Superior, Wis.
2137	9	Slavin, James F.	623 Humbolt St.	Toledo, O.
2245	7	Sloan, Bernard	451 Franklin St.	Detroit, Mich.
1952	14	Smith, Alex. C.	408 Jay St.	St. Clair, Mich.
1111	6	Small, E. S.	218 East 9th St.	Traverse City, Mich.
1013	7	Smith, A. C.	R. F. D. 2	Amherstburg, Ont.
2357	16	Smith, E. R.	121 Archibald St.	Fort William, Ont.
1745	10	Smith, Jno. J.	45 Hamilton St.	Ogdensburg, N. Y
1480	4	Smith, P. H.	Stop 7, Euclid Ave.	Euclid, O.
1780	11	Smith, Sidney H.		Algonac, Mich.
1476	6	Sniffin, B. M.	503 N. 5th St.	Manitowoc, Wis.
1249	6	Soleau, O. J.	Milwaukee Tug Boat Line	Milwaukee, Wis.
2353	6	Solway, Severt		Sturgeon Bay, Wis.
2384	1	Spaulding, H. W.	191 Adams St.	Tonawanda, N. Y.
231	4	Spear, E. P.	1629 E. 118th St.	Cleveland, O.
1246	9	Stalker, A. W.	565 Church St.	E. Toledo, O.
348	9	Stalker, Duncan	522 Woodville St.	E. Toledo, O.
2325	17	Stalker, Malcom	Church St.	Penetanguishene, Ont.
1692	4	Stanley, Edw.	4503 Clinton Ave.	Cleveland, O.
479	6	Starke, Fred C.	520 Grand Ave.	Milwaukee, Wis.
2187	1	Starkey, M. J.	246 Fletcher St.	Tonawanda, N. Y.
921	4	Steible, Jno.	130 Second St.	Sandusky, O.
2386	12	Stemman, John J.	4311 Apple Ave., S. W.	Cleveland, O.
1183	7	Stevens, E. P.	177 Jos. Campau Ave.	Detroit, Mich.
1114	1	Stevenson, G. C.	1113 West Ave.	Buffalo, N. Y.
418	1	Stevenson, Hugh	R 1—63—A	Elma Center, N. Y.
1654	1	Stevenson, Thos.	74 Royal Ave.	Buffalo, N. Y.
1677	2	Stevenson, Wm.	2121 7th St.	Pt. Huron, Mich.
1412	1	Stevenson, W. H.	144 Riverside Ave.	Buffalo, N. Y.
586	7	Stewart, A. E.	93 Garfield Ave.	Detroit, Mich.
2070	11	Stewart, H. W.		Algonac, Mich.
486	6	Stewart, Jno.	Box 234	St. Joseph, Mich.
1770	11	Stewart, J. P.		Algonac, Mich.
1769	11	Stewart, Millard		Algonac, Mich.

Pennant	Lodge	Name	Address	City
1489	4	Stewart, W. G.	Care Pickands, Mather & Co.	Cleveland, O.
1958	10	Stitt, Geo. P.	307 North Brodir St.	Fort William, Ont.
1957	10	Stitt, Jas. M.		Point Du Chene, N. Brunswick
1743	10	Stitt, W. J.		Point Duchene, N. B.
2189	2	Stockdale, R. N.	714 Minnie St.	Port Huron, Mich.
636	7	Stoddard, Lewis	216 Federal Bldg.	Milwaukee, Wis.
184	4	Stone, H. W.	58 Noble Rd.	E. Cleveland, O.
760	4	Stone, L. W.		Vermilion, O.
1712	4	Story, W. J.	30 Kingsville Ave.	Ashtabula, O.
262	4	Stough, L.	1711 W. 31st Pl.	Cleveland, O.
1574	3	Strahan, Louis		Wells, Mich.
1855	7	Stuart, Thos. J.	666 Attwater St. E.	Detroit, Mich.
2364	6	Stufflebeam, G. E.	322 Kalamazoo St.	So. Haven, Mich.
1872	6	Stufflebeam, Jno.	204 N. Lavinia St.	Ludington, Mich.
2131	4	Sturtevant, F. C.	2277 East 87th St.	Cleveland, O.
371	6	Sullivan, D. C.	625 Prospect Ave.	Milwaukee, Wis.
2043	12	Sullivan, D. T.	331 N. 60th Ave., W.	Duluth, Minn.
1676	9	Sullivan, N. M.	3412 Glenwood Ave.	Toledo, O.
2079	7	Sullivan, Wm. E.	107 Elmhurst Ave.	Detroit, Mich.
2127	7	Sullivan, T. D.	702 W. Jennie St.	Bay City, Mich.
1303	4	Sutherland, W. T.	1274 Crook St., Care J. G. Pierner	Green Bay, Wis.
363	7	Swain, Martin	471 Wabash Ave., Care R. M. Northwood	Detroit, Mich.
2023	12	Swenson, Albert	1001 Torrey Bldg.	Duluth, Minn.
1709	4	Talbot, A. J.	906 E. Erie Ave.	Lorain, O.
1410	7	Talbot, Geo. E.	2635 2nd Ave.	Highland Park, Mich.
1680	3	Taylor, Edw.	4351 W. Monroe St.	Chicago, Ill.
1157	8	Taylor, James	157 Main St.	Marine City, Mich.
2273	16	Taylor, W. J.	366 Dufferin St.	Port Arthur, Ont.
1096	4	Tear, F. S.	The Blvd.	Painesville, O.
79	3	Tebo, Geo.	3838 Sheffield Ave.	Chicago, Ill.
2068	3	Thayer, C. R.	1337 E. 71st Pl.	Chicago, Ill.
2163	2	Thody, Fred W.	2004 7th St.	Port Huron, Mich.
422	4	Thompson, J. C.	4202 Bailey Ave., S. W.	Cleveland, O.
1795	4	Thompson, M. S.	144 Erie St.	Painesville, O.
1050	1	Thompson, Peter	104 Russell Ave.	Buffalo, N. Y.
1500	4	Thompson, Robt.	2325 E. 100th St.	Cleveland, O.
1591	2	Thompson, W. F.	1208 E. 5th St.	Duluth, Minn.

Pennant	Lodge	Name	Address	City
657	7	Thorburn, Jno.	Care W. A. Meddaugh	Westhope, N. D.
61	7	Thorne, Wm.	15 Willis Ave.	Detroit, Mich.
69	1	Thorpe, E. F.	12217 Detroit Ave.	Lakewood, O.
2123	6	Thorpe, John	688 34th St.	Milwaukee, Wis.
1943	6	Thorsen, Louis	601 Edison St.	Milwaukee, Wis.
560	2	Tharp, W. H.	305 N. Henry St., Sta. A.	West Bay City, Mich.
1979	4	Thrasher, C. R.	1408 West 55th St.	Cleveland, O.
2176	4	Tilden, L. S.	7049 Superior, Suite 12	Cleveland, O.
2338	6	Tilley, R. G.	552½ Linus St.	Milwaukee, Wis.
1469	3	Tisdale, Geo. B.	Box 116	Douglas, Mich.
2344	6	Tobin, Gordon	701 3rd Ave. W.	Ashland, Wis.
719	9	Tomlin, Wm. J.		Marine City, Mich.
2387	3	Topic, Peter	634 Christiana Ave.	Chicago, Ill.
167	4	Tower, C. B.	4102 Clinton Ave.	Cleveland, O.
1051	6	Tower, Jno.	Milwaukee Tug Boat Line	Milwaukee, Wis.
2098	11	Townsend, C. A.		Algonac, Mich.
1991	10	Travis, Fred	King St.	Ogdensburg, N. Y.
1706	3	Trodahl, H. H.		Dagget, Mich.
206	7	Trottier, G. N.	302 Moffat Bldg.	Detroit, Mich.
2093	4	Tufverson, N. P.	214 4th St.	Elyria, O.
1055	4	Tulian, G. D.	1247 East 24th St.	Cleveland, O.
1942	6	Tulledge, Bernard		Frankfort, Mich.
2081	3	Upham, Lucian		Saugatuck, Mich.
1902	8	Utley, R. Z.	307 Elizabeth St.	Marine City, Mich.
2135	4	Van Buskirk, John	564 Harbor St.	Conneaut, O.
2263	6	Van Dyke, W. H.	Care Pere Marquette Line Steamers, Pere Marquette 7	Milwaukee, Wis.
1371	8	Van Gorder, C.		Marine City, Mich.
2050	1	Van Natta, C. F.	399 Miller St.	N. Tonawanda, N. Y.
1501	4	Van Slet, Abram	2115 W. 96th St., Wm. Hobson, Trustee	Cleveland, O.
2067	3	Van Velzen, H.	1708 North Keystone Ave.	Chicago, Ill.
1956	3	Voight, A. C.	1957 Balmoral Ave.	Chicago, Ill.
1369	1	Vrooman, G. H.	Union Towing & Wrecking Co.	Duluth, Minn.
2160	4	Wade, F. J.	1310 West 106th St.	Cleveland, O.
1001	4	Walder, R. J.	1421 W. 65th St.	Cleveland, O.
844	9	Walker, N. B.	952 Clark St.	E. Toledo, O.

Pennant	Lodge	Name	Address	City
294	4	Wallace, C. H.	Care Pittsburgh Coal Co., Old Colony Bldg.	Chicago, Ill.
1933	6	Walle, Martin	857 27th St.	Milwaukee, Wis.
1621	4	Walper, Henry	24 Exchange St.	Vermilion, O.
980	10	Walsh, Jas. A.	97 Morris St.	Ogdensburg, N. Y.
651	7	Waltman, Jos.	597 Vinewood Ave.	Detroit, Mich.
1124	6	Wanvig, John D.	404 Webster Ave.	Milwaukee, Wis.
965	4	Ward, Jno.	1301 New England Bldg.	Cleveland, O.
2191	2	Ward, Peter	27 Taylor St.	Pt. Huron, Mich.
2192	11	Warner, C. W.		Algonac, Mich.
1955	9	Warner, Raymond	409 3rd St.	Toledo, O.
1514	11	Warner, W. B.	Box 223	Algonac, Mich.
1914	11	Warner, W. E.	Box 13	Algonac, Mich.
2095	2	Warwick, E. W.	2003 7th St.	Pt. Huron, Mich.
1118	1	Warwick, Henry	Holland Beach	Port Huron, Mich.
1669	1	Watson, C. W.	36 Ada Pl.	Buffalo, N. Y.
336	7	Watts, Jas. B.	108 Jay St.	Detroit, Mich.
1722	3	Weaver, Geo. W.	Box 374	Charlevoix, Mich.
2001	4	Weaver, Jas. T.	55 Gelston St.	Buffalo, N. Y.
1548	7	Webster, C. T.	1938 Jefferson Ave.	Detroit, Mich.
2130	8	Wellhousen, H. C.	338 Woodworth St.	Marine City, Mich.
305	4	Weeks, J. L.	1449 Robinwood Ave.	Lakewood, O.
932	3	Weimar, F. T.	7424 N. Paulina St., Rogers Park	Chicago, Ill.
1649	1	Weinheimer, E. J.		Lake View, N. Y.
1312	1	Weinheimer, F. L.	452 Prospect Ave.	Buffalo, N. Y.
1647	1	Weinheimer, E. W.	452 Prospect Ave.	Buffalo, N. Y.
1822	4	Weitzman, C. A.	Box 140	Huron, O.
2162	4	Wendorf, H.	1424 West 75th St.	Cleveland, O.
1132	7	West, B. E.	327 St. Clair Ave.	Detroit, Mich.
1586	14	West, F. A.	540 N. 3rd St.	St. Clair, Mich.
1385	1	White, A. E.		Washington, Mich.
2073	1	Wiebe, Fred	11 Gelston St.	Buffalo, N. Y.
2011	1	Wiener, Fred E.	198 Shumway St.	Buffalo, N. Y.
1045	1	Wilkins, W. W.	2321 Myrtle St.	Erie, Pa.
1597	7	Wilkinson, C.	865 Congress St. East	Detroit, Mich.
1151	7	Wilkinson, Fred	411 Hellen Ave.	Detroit, Mich.
1762	1	Wilkinson, R. B.	76 E. Oakwood Pl.	Buffalo, N. Y.
1639	3	Willett, C. W.	129 Main St.	Vandalia, Ill.
1491	4	Williams, A. M.	1466 Orchard Grove Ave.	Lakewood, O.
410	3	Williams, David	4321 Jackson Blvd.	Chicago, Ill.

Pennant	Lodge	Name	Address	City
1044	6	Williams, Edw.	7507 Lawn Ave.	Cleveland, O.
2349	1	Williams, J. E.	423 Jefferson Ave.	Bay City, Mich.
352	7	Williams, W. H.	800 Trumbull Ave.	Detroit, Mich.
2128	1	Williams, W. W.	297 Mt. Vernon Ave.	Detroit, Mich.
1837	8	Williamson, P. L.	Pearl St.	Marine City, Mich.
1880	7	Williscroft, J. E.	Box 221	Mundare, Alberta
1058	4	Willoughby, W. J.	167 Victoria Ave.	Windsor, Ont.
1593	4	Wilman, Dan	3403 W. 98th St.	Cleveland, O.
1471	3	Wilson, C. H., Jr.	832 West 8th St.	Erie, Pa.
63	1	Wilson, C. H., Sr.	706 West 8th St.	Erie, Pa.
596	7	Wilson, Chas. L.	164 Willis Ave.	Detroit, Mich.
2313	17	Wilson, R. J.	Box 292, Toronto St.	Midland, Ont.
1408	7	Wilson, Wm.	35 Upton St.	Boston, Mass.
2297	6	Winkler, Herman	414 No. 6th St.	Manitowoc, Wis.
2295	1	Winter, John J.	101 Elmwood Ave.	Buffalo, N. Y.
1628	3	Woerpel, H.	3835 Central Park Ave.	Chicago, Ill.
1533	4	Wood, J. S.	1790 E. 87th St.	Cleveland, O.
761	4	Woodford, C. H.	Care Pickands, Mather & Co.	Cleveland, O.
1893	7	Woodgrift, C. H.	873 Iroquois Ave.	Detroit, Mich.
2362	4	Woodford, Roy F.	2519 Jay Ave.	Cleveland, O.
2076	10	Woods, A. F.	54 Elizabeth St.	Ogdensburg, N. Y.
2396	10	Woods, James	222 Washington St.	Ogdensburg, N. Y.
1133	6	Woods, Jno.	184 Water St.	Milwaukee, Wis.
1749	10	Woods, Wm. V.	217 Washington St.	Ogdensburg, N. Y.
1121	4	Woodward, C. D.	Care F. Leckie, 1020 Rockefeller Bldg.	Cleveland, O.
2072	1	Worden, Scott	189 W. Euclid Ave.	Detroit, Mich.
503	6	Wright, Wm.	405 Logan Ave.	Milwaukee, Wis.
1643	7	Yates, Wm. H.	236 Horton Ave.	Detroit, Mich.
1841	8	Young, Alex	R. F. D. 1, Care A. Young, Sr.	Marine City, Mich.
819	7	Young, J. P.	99 Edison Ave.	Detroit, Mich.
40	3	Young, Robert	305 N. 5th St.	Chicago, Ill.
1917	9	Zeim, Wm. C.	231 Campbell St.	Alpena, Mich.
2066	4	Zeland, T. J.	1598 Woodward Ave.	Lakewood, O.
1907	6	Zwemer, Everett	114 2nd St.	Grand Haven, Mich.

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NAMES AND ADDRESSES OF ASSOCIATE MEMBERS, SHIP MASTERS' ASSOCIATION

Pennant	Name	Address	City
A 2	Chas. P. Gilchrist	560 Franklin Ave.	Cleveland, O.
A 3	J. P. Karr	171 River St.	Cleveland, O.
A 6	John F. Wedow	93 Tilden St.	Cleveland, O.
A 7	L. Hausheer, Jr.		Lakewood, O.
A 9	Oliver W. Upson	1310 River Ave., N. W.	Cleveland, O.
A 10	J. B. Rodgers	175 Highland Ave.	Buffalo, N. Y.
A 12	A. T. Harvey	881 Case Ave.	Cleveland, O.
A 13	Harvey D. Goulder	1561 Euclid Ave.	Cleveland, O.
A 14	W. P. Murray	720 Genesee St.	Cleveland, O.
A 15	J. D. Ashley	242 Oliver St.	Cleveland, O.
A 16	W. H. Becker		Dover, O.
A 17	H. Leonard Wilton	523 Cass Ave.	Detroit, Mich.
A 18	Hermon A. Kelley	Overlook Road, Euclid Heights	Cleveland, O.
A 21	Robert J. Dunham	381 No. Halsted St.	Chicago, Ill.
A 23	Wm. E. Holmes	20 Delaware Place	Chicago, Ill.
A 24	William H. Wood	665 Evanston Ave.	Chicago, Ill.
A 25	D. Sullivan	641 West Adams St.	Chicago, Ill.
A 26	J. H. Sheadle	Norfolk Road, Euclid Heights	Cleveland, O.
A 27	Chas. W. Elphicke	111 W. Jackson Blvd.	Chicago, Ill.
A 28	Ray G. McDonald	630 First Nat'l Bank Bldg.	Chicago, Ill.
A 29	Geo. J. Harris	462 North Water St.	Chicago, Ill.
A 30	Henry J. Pauly	207 14th St.	Milwaukee, Wis.
A 31	W. A. Hawgood	79 Bell Ave.	Cleveland, O.
A 32	H. Coulby		Cleveland, O.
A 33	M. A. Bradley	1378 Euclid Ave.	Cleveland, O.
A 34	T. F. Newman	724 Genesee St.	Cleveland, O.
A 35	Frank W. Fletcher		Alpena, Mich.
A 36	G. A. Tomlinson		Duluth, Minn.
A 37	Ralph D. Mitchell	2170 Euclid Ave.	Cleveland, O.
A 38	F. B. Wadhams	465 Willson Ave.	Cleveland, O.
A 40	John H. Schlosser	22 Hanover St.	Milwaukee, Wis.
A 42	John O. Teagan	1065 Jefferson Ave.	Detroit, Mich.

Pennant	Name	Address	City
A 43	Christ J. Meyer	98 Ferry St.	Wauwatosa, Wis.
A 44	C. L. Parker	326 St. Alban Ave.	Detroit, Mich.
A 45	Fred W. Green	3184 West 95th St.	Cleveland, O.
A 47	S. W. Gould	1595 E. 86th St. N. E.	Cleveland, O.
A 61	J. C. Evans		
A 63	J. E. Upson	11447 Euclid Ave.	Cleveland, O.
A 65	W. P. Trinter	2313 E. 55th St.	Cleveland, O.
A 66	G. F. Body	601 Canal Road	Cleveland, O.
A 67	Thomas J. Rennick	70 Market St.	Ashtabula, O.
A 68	K. Oakes	46 Palmer Ave.	Detroit, Mich.
A 69	T. A. Cheney	25 Walnut St.	Ashtabula, O.
A 70	E. Lawrence		Fairport Harbor, O.
A 71	H. W. McGean	1845 E. 79th St.	Cleveland, O.
A 72	C. L. Hutchinson	18 Grace Ave.	Lakewood, O.
A 73	A. F. Leopold	3905 Whitman Ave.	Cleveland, O.
A 74	H. B. Drake	2309 E. 93rd St.	Cleveland, O.
A 75	Henry Hull	Williams St.	Huron, O.
A 76	C. C. Lanken	Asot Apts., Crawford Rd.	Cleveland, O.
A 77	Jas. O'Connor	167 Morgan St.	Tonawanda, N. Y.
A 78	F. H. Burrill	54 Spruce St.	Ashtabula, O.
A 79	W. J. Douglas	67 Washington St.	Ogdensburg, N. Y.
A 80	Edw. Smith	444 Linwood Ave., Buffalo Dry Dock Company	Buffalo, N. Y.
A 81	E. C. Collins	3310 Carnegie Ave.	Cleveland, O.
A 82	C. C. Canfield	10215 Westchester Ave. N. E.	Cleveland, O.
A 84	Jos. Kendrick	1229 Rockefeller Bldg.	Cleveland, O.
A 85	Thos. W. Sheriff	277 25th St.	Milwaukee, Wis.
A 86	Carl C. Joys	358 Hanover St.	Milwaukee, Wis.
A 87	Jos. Davidson	356 Virginia St.	Milwaukee, Wis.
A 88	W. C. Starke	137 18th St.	Milwaukee, Wis.
A 89	A. W. Thompson	1304 Rockefeller Bldg.	Cleveland, O.
A 92	R. A. Blood	1363 Belle Ave.	Lakewood, O.
A 94	J. Burton Ayers	1007 Rockefeller Bldg.	Cleveland, O.
A 96	Peter Peterson	2059 Clifton Ave.	Chicago, Ill.
A 97	Ernst P. Lenihan	1961 East 66th St.	Cleveland, O.
A 99	David M. Hackett		Amherstburg, Ont.
A 100	H. H. Thompson	1212 E. 4th St.	Duluth, Minn.
A 101	Daniel D. Murray	2028 E. Superior St.	Duluth, Minn.
A 102	A. J. Schmitt	175 W. Jackson Blvd.	Chicago, Ill.
A 104	George McDonald		Fort William, Ont.

Pennant.	Name.	Address.	City.
A 10	J. B. Rogers,	175 Highland Ave.,	Buffalo, N. Y.
A 46	John J. Boland,	794 South Park Ave.,	" "
A 48	James McAlphine,	1217 Chamber of Commerce,	" "
A 49	W. E. Lloyd,	Mutual Transit Co.,	" "
A 51	Harvey L. Brown,	439 Richmond Ave.,	" "
A 53	J. B. Rodgers,	1217 Chamber of Commerce,	" "
A 55	John B. Richards,	1317 Chamber of Commerce,	" "
A 56	Dell L. Tuttle,	Prudential Building,	" "
A 57	John Connelly,	126 Fargo Ave.,	" "
A 58	J. C. Oberschiemer,	1217 Chamber of Commerce,	" "
A 59	M. Connolly,	254 Swan Street,	" "
A 60	Adam C. Cornelius,	Prudential Building,	" "
A 61	J. C. Evans,	Anchor Line,	" "
A 77	Jas. O'Connor,	167 Morgan St.,	Tonawanda, N. Y.
A 80	Edward N. Smith,	444 Linwood Ave.,	Buffalo Dry Dock
A 93	Mathias Young,	Lehigh Valley Line,	Buffalo, N. Y.
A 104	Geo. A. McDonald,		Fort William, Ont.
A 112	J. McCarthy	157 Ohio St.,	Buffalo, N. Y.
A 120	Judson Dells,	Northern Steamship Co.,	Buffalo, N. Y.

Pennant	Name	Address	City
A 105	Clarence Richardson	90 Alvason Rd.	Cleveland, O.
A 106	Frank H. Miner	1512 Robinwood Ave.	Lakewood, O.
A 107	Gilbert Andersen	1025 W. North Ave.	Chicago, Ill.
A 108	James Mowatt	5136 Prairie Ave.	Chicago, Ill.
A 109	Thomas Becton		Fort Huron, Mich.
A 110	William Hayden	60 East Seneca St.	Buffalo, N. Y.
A 111	F. A. Myer	202 Main St.	Buffalo, N. Y.
A 112	J. McCarthy	159 Ohio St.	Buffalo, N. Y.
A 113	McKittrick	409 Oak St.	Buffalo, N. Y.
A 114	Bryant O'Day	164 Ohio St.	Buffalo, N. Y.
A 115	John O'Day	Gannon and Ohio St.	Buffalo, N. Y.
A 116	Alex Peters	Ship Masters' Assn.	Buffalo, N. Y.
A 117	James Paya	Ship Masters' Assn.	Buffalo, N. Y.
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Pennant	Name	Address	City
A 105	Clarence Richardson	60 Alvason Rd.	Cleveland, O.
A 106	Frank H. Miner	1512 Robinwood Ave.	Lakewood, O.
A 107	Gilbert Andersen	1025 W. North Ave.	Chicago, Ill.
A 108	James Mowatt	5136 Prairie Ave.	Chicago, Ill.
A 109	Thomas Becton		Port Huron, Mich.
A 110	William Hayden	60 East Seneca St.	Buffalo, N. Y.
A 111	F. A. Myer	202 Main St.	Buffalo, N. Y.
A 112	J. McCarthy	159 Ohio St.	Buffalo, N. Y.
A 113	McKittrick	409 Oak St.	Buffalo, N. Y.
A 114	Bryant O'Day	164 Ohio St.	Buffalo, N. Y.
A 115	John O'Day	Ganson and Ohio St.	Buffalo, N. Y.
A 116	Alex Peters	Ship Masters' Assn.	Buffalo, N. Y.
A 117	James Paya	Ship Masters' Assn.	Buffalo, N. Y.
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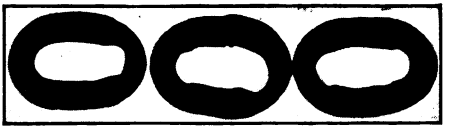

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Pennant	Name	Address	City
H 15	R. C. Smith	536 Fullerton Parkway	Chicago, Ill.
H 16	J. S. Henderson	3448 Carroll Ave.	Chicago, Ill.
H 17	Wm. Langell		St. Clair, Mich.
H 18	George Bugge		St. Clair, Mich.
H 19	J. H. Trumble		St. Clair, Mich.
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H 23	Wesley C. Brown		St. Clair, Mich.
H 24	W. T. Landon		St. Clair, Mich.
H 25	H. G. Inman	27 57th Ave. E.	Duluth, Minn.
H 26	C. B. Carroll	R. F. D.	Duluth, Minn.
H 27	John Bovard	Cor. Green & Clark Sts.	Ogdensburg, N. Y.
H 28	Wm. Plumb	8 Ford St.	Ogdensburg, N. Y.
H 29	A. McDonald	5 Elizabeth St.	Ogdensburg, N. Y.
H 30	R. Fitzgerald	61 Hamilton St.	Ogdensburg, N. Y.
H 31	Joseph Richard	Care Hall Coal Co.	Ogdensburg, N. Y.
H 32	Wm. A. Russell	73 King St.	Ogdensburg, N. Y.
H 33	W. D. Waite	141 N. Water St.	Ogdensburg, N. Y.
H 35	George Pearson	361 7th St. E.	Owen Sound, Ont.
H 36	John McIntyre	657 8th St. E.	Owen Sound, Ont.
H 37	John Wharry	952 5th Ave. E.	Owen Sound, Ont.
H 38	George Dunn	972 1st Ave. W.	Owen Sound, Ont.
H 39	P. J. Shaw	507 9th St. E.	Owen Sound, Ont.
H 40	Peter McKay	676 4th Ave. E.	Owen Sound, Ont.
H 41	George Waugh	547 12th St. W.	Owen Sound, Ont.
H 42	F. X. LaFrance	446 9th St. E.	Owen Sound, Ont.
H 43	John Rutherford	1182 1st Ave. W.	Owen Sound, Ont.
H 44	Wm. Sinclair		Wiarton, Ont.
H 45	Frank Davis		Port McNicoll, Ont.
H 46	A. G. McLeod	992 15th St. E.	Owen Sound, Ont.
H 47	P. C. Telfer	2306 4th Ave. W.	Owen Sound, Ont.
H 48	Neil Campbell	705 3rd Ave. E.	Owen Sound, Ont.

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H 49	R. D. Simpson	374 10th St. E.	Owen Sound, Ont.
H 50	John B. Currie	1568 3rd Ave. E.	Owen Sound, Ont.
H 51	Charles Burgie	357 Agelite Ave.	Port Arthur, Ont.
H 52	James D. Morrison	344 Van Norman St.	Port Arthur, Ont.
H 53	W. R. Stawntor	80 Pine St.	Port Arthur, Ont.
H 54	George Scegal	80 Crown St.	Port Arthur, Ont.
H 55	Grover Buel	59 Ontario St.	Port Arthur, Ont.
H 56	N. Morrison	267 Park St.	Port Arthur, Ont.
H 57	George Cousins	43 Crown St.	Port Arthur, Ont.
H 58	George McInnes	178 N. Cumberland St.	Pt. Arthur, Ont.
H 59	George Cosgrove		Port Arthur, Ont.
H 60	J. Maloney	10 College St.	Port Arthur, Ont.
H 61	W. C. Graley		Midland, Ont.
H 62	R. Smith	6th St.	Midland, Ont.
H 63	F. E. Cook	3rd St.	Midland, Ont.
H 64	W. B. Kitchen	Midland Ave.	Midland, Ont.
H 65	G. W. Kinnie	King St.	Midland, Ont.
H 66	A. B. Cuff	King St.	Midland, Ont.
H 67	J. Tindall	3rd St.	Midland, Ont.
H 68	A. G. Gidley	Mary St.	Midland, Ont.
H 69	A. Macaulay	Dominion Ave.	Midland, Ont.
H 70	C. E. Gould		Midland, Ont.
H 71	Peter Light		Penetanguishene, Ont.
H 72	Robert Brown	49 W. Seneca St.	Buffalo, N. Y.
H 73	W. M. Connelly	715 Rockefeller Bldg.	Cleveland, O.
H 74	Morris Crawford	74 Michigan Ave.	Buffalo, N. Y.
H 75	John Gehm	45 Elk St. Market	Buffalo, N. Y.
H 76	P. J. Gunn	120 Michigan Ave.	Buffalo, N. Y.
H 77	J. A. Grodzinski	68 Michigan Ave.	Buffalo, N. Y.
H 78	Thomas Hayden	60 E. Seneca St.	Buffalo, N. Y.
H 79	Daniel Hourigan		Oswego, N. Y.
H 80	A. H. Kropman	340 Washington St.	Buffalo, N. Y.
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H 83	Albert Norton	227 Franklin St.	Buffalo, N. Y.
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H 85	J. A. Weisback	202 Main St.	Buffalo, N. Y.
H 86	Harry Wright	17 Elk St.	Buffalo, N. Y.
H 87	A. J. Green	Summit Ave.	Lakewood, O.
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MEMBERS OF THE SHIP MASTERS' ASSOCIATION

Arranged According to Pennant Numbers

Pennant Numbers 15 to 269 Inclusive

Pennant	Lodge	Name
15	7	Ivers, John H.
17	1	Dunn, John
22	1	Hogg, G. L.
35	1	Clarke, Geo. H.
40	3	Young, Robert
42	1	Fletcher, William
44	4	Chapman, A. C.
49	1	Robinson, Walter
50	1	Corcoran, Joseph
54	4	Sherwood, D. N.
55	10	Shay, W. S.
56	3	Root, F. D.
61	7	Thorne, William
63	1	Wilson, Chas. H., Sr.
69	1	Thorp, E. F.
78	2	McArthur, John
79	3	Tebo, George
89	2	Kendall, H. J.
104	1	Berrow, Joseph H.
105	1	Durker, Henry
108	1	Murphy, Henry
113	2	Madden, M. J.
115	2	Anderson, E. B.
116	1	Coleman, Jeremiah
120	1	Grasser, George
121	2	Davis, E. H.
129	1	Murphy, S. M.
133	1	Richardson, Harry
138	2	Davis, Henry
140	2	Powrie, P. F.
149	3	Carr, James
155	7	Hart, Fred C.
160	4	Hoover, N. E.
164	4	Lowe, James B.
167	4	Tower, Chas. B.
170	1	Hall, John B.
174	4	Brown, Frank H.
176	4	Mallory, G. B.
177	4	Rae, F. H.
182	4	Lowe, John
184	4	Stone, Henry W.
191	2	May, A. C.
197	4	Lyons, R. J.
199	3	Disher, William
200	3	Gallagher, Anthony
206	7	Trottier, Geo. N.
223	4	Saph, C. M.
227	2	Buzzard, John
229	14	Pringle, John C.
231	4	Spear, E. P.
232	6	Ballentine, E. D.
234	4	Benham, C. E.
252	3	Chron, Thomas
253	7	Armstrong, Byron
254	3	Moore, H. R.
256	3	Cambell, J. M.
262	4	Stough, Lafayette
264	4	Humphrey, W. H.
266	4	Mallory, D. H.
269	4	Holmes, Jos. A.

Pennant	Lodge	Name
272	4	Ennes, C. G.
274	4	Collier, Wm. A.
277	2	Sinclair, D. M.
279	1	Robarge, G. E.
283	3	Loftus, H. F.
287	3	Roach, P. C.
288	4	McKay, Geo. P.
290	4	Call, Richard
293	4	Chapman, C. B.
294	4	Wallace, Chas. H.
300	3	McCambridge, T.
302	4	Mitchell, John
305	4	Weeks, J. L.
307	4	Ames, William
315	1	McEachern, A.
317	1	Drake, A. B.
319	1	Buie, Daniel
336	7	Watts, Jas. B.
339	4	Mulholland, Matt.
347	4	Fick, F. A.
348	9	Stalker, Duncan
350	14	O'Connor, R.
352	7	Williams, W. H.
355	4	Morgan, Jas. W.
358	4	Olsen, Olaf
359	3	Jenks, John
362	3	Higgins, Thomas
363	7	Swain, Martin
365	3	Mansfield, I. B.
370	3	Clow, J. M.
371	6	Sullivan, D. C.
373	2	Everett, Anthony
381	1	Perew, John
388	2	Harrow, W. B.
391	4	Hinslea, Chas. H.
394	1	Johnson, John
407	4	Doville, Jos.
410	3	Williams, David
412	3	Moore, Chas. K.
418	1	Stevenson, Hugh
422	4	Thompson, J. C.
427	4	Benham, Chas. A.
433	4	Cleveland, C. R.
438	4	Colbert, Thos.
439	6	Carter, W. J.
443	3	Regan, John
448	1	Coughlin, Daniel
448	6	Anderson, O. N.
450	3	Minskey, J. P.
451	3	Flood, G. W.
464	7	Nicholson, D.
477	6	Maxon, F. C.
479	6	Starke, F. C.
481	6	Jamieson, William
486	6	Stewart, John
496	6	Schwerman, Fred
498	6	Leisk, John
500	6	Leisk, Henry
501	6	Doak, John A.
503	6	Wright, Wm.
506	4	Hawgood, A. H.
507	6	McSweeney, John
509	6	Scott, W. B.
513	6	McCoy, John
515	6	McGregor, W. F.
528	7	Hutton, John T.
532	7	Duncanson, D. J.
542	3	McDonald, Geo.
543	3	MacLean, Donald
546	4	Sanders, Jos.
553	9	Harlow, Wm. J.
557	2	Laframboise, Jas.
558	4	Rae, Frank C.
560	2	Tharp, W. H.
566	1	Shepard, A. M.
570	4	Anderson, Joseph
572	3	Hubbard, Chas. H.
576	2	Maitland, Henry
586	7	Stewart, A. E.
595	6	Boyce, H. M.
596	7	Wilson, Chas. L.
603	7	Lohr, Edward

Pennant	Lodge	Name
612	7	Fox, Arthur J.
613	9	Meikleham, Thos.
614	9	Bailey, Robt. N.
624	4	Peterson, H.
629	7	Ferguson, Robt. E.
632	7	Skiffington, J. A.
636	7	Stoddard, Lewis
641	2	Harper, Geo.
642	3	Cochrane, David
651	7	Waltman, Jos.
656	2	Montgomery, W. L.
657	7	Thorburn, John
666	7	Holbrook, T. H.
671	7	Millen, Wm. F.
671	7	Ashley, W. A.
675	4	Miller, C. D.
694	4	Peterson, C. A.
695	4	Peterson, C. A.
708	4	Rice, Frank
712	6	McGinn, James
719	9	Tomlin, Wm. J.
731	7	Campau, W. H.
732	7	Mara, James
738	4	Cottrell, Geo. L.
750	7	Livingston, W., Jr.
751	7	Lennon, Wm.
753	7	McKay, Alex. J.
755	7	McLarty, James
760	4	Stone, Lewis W.
761	4	Woodford, C. H.
767	7	McIntosh, M. G.
770	1	Graham, George
771	1	McMillan, Chas.
782	8	Rice, Phillip
786	8	Hagan, Wm.
798	4	Mitchell, Alfred
799	8	Shaw, G. A.
804	2	Brown, C. T.
810	4	Lalond, Anthony
819	7	Young, J. P.
821	1	Rowan, Murdock
822	2	Mosier, R. H.
826	9	Herrick, T. C.
827	1	Cunningham, Jas.
831	9	Gillespie, Isaac G.
843	9	Sage, Geo. V.
844	9	Walker, Norman B.
850	4	Slackford, W. G.
854	9	Ashley, Ed. G.
856	9	McKinley, Jas.
861	2	Chambers, A. P.
865	7	July, Edward F.
875	7	McCallum, H. C.
881	7	Hoffman, Frank
891	1	Madigan, Jos. A.
892	6	Christenson, Peter
893	7	Hursley, Jay
899	3	Elliott, A. M.
902	3	Robertson, Geo.
910	7	McLean, Wm.
914	4	Carlos, W. S.
921	4	Steible, John
932	3	Weimar, Fred T.
941	3	McIntyre, Allen
952	4	Eldridge, H. C.
959	4	Moody, Wm. H.
960	4	Lampoh, Jos.
965	4	Ward, John
971	2	Fleck, James A.
972	7	McAlpin, John
973	3	Brion, James W.
978	6	Bennett, Henry
980	10	Walsh, James A.
982	4	Benham, Wm. P.
983	4	Detlefs, Emil
986	3	Gallino, A. P.
987	7	Hutchins, F. C.
988	4	Megervey, Wm.
992	3	Moore, J. F.
994	2	Manuel, Fred W.
995	2	Budd, Melvin A.
996	6	Ackerman, J. C.

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Superintendent's Telephone, Bryant 209 Tupper 3012

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1001	4	Walder, R. J.
1004	4	Hoag, Wm. S.
1010	4	Laframboise, Jacob
1012	2	Cowles, Wm. J.
1013	7	Smith, A. C.
1014	2	Johnston, Edward
1016	1	Green, John D.
1017	4	Hunt, Wm. J.
1018	3	Howard, Martin
1020	4	Jollie, Richard
1021	2	Bennett, Jas. S.
1026	4	Fox, Benson
1028	7	McLachlan, Archie
1029	1	Herbert, Fred
1032	6	Moody, Chas. E.
1035	4	Ingraham, F. E.
1038	4	Allen, Sam'l C.
1039	4	Post, Jos. W.
1041	4	Ferguson, Wm.
1043	3	Rand, Leroy A.
1044	6	Williams, Edward
1045	1	Wilkins, W. W.
1047	1	Martin, Edward
1050	1	Thompson, Peter
1051	6	Tower, John
1052	7	McGuire, Norman
1054	7	Goodrow, Frank
1055	4	Tulian, G. D.
1058	4	Willoughby, W. J.
1059	4	Driscoll, Jas. H.
1060	1	Gibson, James R.
1061	7	Brady, Thos. J.
1065	7	McIntosh, John L.
1067	4	McGarry, John
1068	4	Bouille, David
1070	4	Cody, F. B.
1073	7	Mahon, A. J.
1075	7	Donaghue, E. J.
1076	7	Crosby, Wm. J.
1079	9	Lockhart, D. O.
1081	7	Johnson, Alex.
1082	7	Mallette, Paul A.
1083	6	Brownell, Stephen
1085	7	Clark, Alex.
1088	4	Sanders, Thos. H.
1090	4	Beggs, Thos.
1091	1	Howe, Alfred B.
1095	6	Duddleson, John W.
1096	4	Tear, F. S.
1101	2	Burns, John
1103	6	Ross, C. D.
1104	2	Sinclair, J. H.
1105	14	Reece, Geo. O.
1106	4	Heaton, Chas. H.
1109	2	Neal, Jas. S.
1111	6	Small, E. S.
1112	7	McCarthy, Daniel
1114	1	Stevenson, Geo. C.
1115	4	Jones, John F.
1116	4	Allen, C. L.
1117	7	Burke, Enos J.
1118	1	Warwick, Henry
1121	4	Woodward, Chas. D.
1122	7	Kearns, Joseph
1124	6	Wanvig, John D.
1125	3	Christensen, A.
1126	9	Benson, Dan.
1127	4	Dyble, Edw.
1131	9	Jex, H. N.
1132	7	West, Bert E.
1133	6	Woods, John
1135	4	Craigie, Alex.
1136	4	Hergenrother, J. A.
1137	7	Balfour, C. C.
1140	1	Hansen, A. C.
1140	3	Hanson, Andrew
1141	7	Forton, Frank S.
1147	9	Doville, D. F.
1148	6	Olson, Sam, No. 2
1150	14	Greening, Wm.
1151	7	Wilkinson, Fred
1153	3	Hamilton, W. D.

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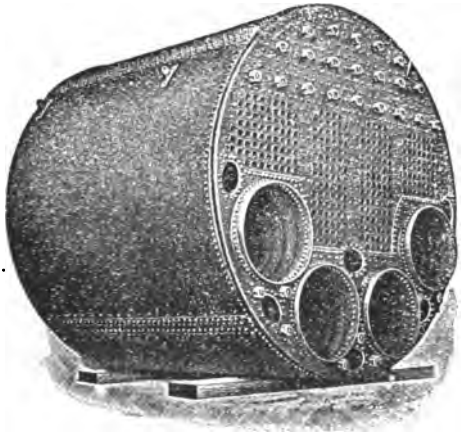

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SOUTH CHICAGO WORKS, 96th AND RIVER

Telephones—Lake Shore 414 and South Chicago Exchange 53

Pennant	Lodge	Name
1155	1	Montgomery, J. W.
1157	8	Taylor, James
1159	1	Hayes, W. J.
1160	8	McDonald, J. H.
1161	7	MacDonald, N.
1167	9	Burnham, Geo.
1169	1	O'Day, Simon
1170	3	Minter, Thos. B.
1171	3	Reid, Robert, Jr.
1172	3	Christopher, S.
1175	7	Millen, P. L.
1177	4	Burr, James L.
1179	1	O'Neil, Patrick
1182	7	Parsons, H. H.
1183	7	Stevens, E. P.
1184	4	Hinslea, Henry
1185	4	Parsson, F.
1187	1	Hartman, John J.
1193	7	Bertrand, Frank
1194	7	Maddock, J. B.
1197	4	Hand, A. S.
1198	8	Brown, Hector
1199	8	McCann, S. B.
1201	7	Parsons, Joseph
1204	7	Maddock, J. C.
1205	4	Blattner, Wm. H.
1206	6	Larson, Peter
1208	3	Jacobson, Jacob
1209	2	Neal, Wm. D.
1219	4	England, Rich. W.
1226	8	Mattison, E. F.
1227	8	Folsom, Frank C.
1229	8	Kinyon, S. D.
1233	7	Parsons, Dudley R.
1236	4	Bouille, Pierre
1237	4	Kelly, Henry
1240	2	Kelly, James W.
1241	2	Canartney, M.
1243	8	Kuhn, John
1244	7	Clifford, Alex.
1246	9	Stalker, A. W.
1249	6	Soleau, O. J.
1251	9	Doville, Egbert
1252	9	Cunningham, J. J.
1254	2	Reed, Wm. A.
1257	8	Cottrell, Jas. F.
1262	8	Broadbridge, A. T.
1266	9	Kirker, Fred
1269	3	Patterson, Wm.
1274	6	Cook, J. G.
1276	8	Maxwell, Wm.
1283	4	Robinson, A. R.
1284	7	Rains, Ed. T.
1285	3	Leith, Alex.
1294	1	Burns, John J.
1295	4	Landfair, B. M.
1303	4	Sutherland, Wm. T.
1304	9	Harlow, Frank T.
1307	4	Reid, Fred'k H.
1308	3	Campau, Louis A.
1309	9	Cook, J. W.
1312	1	Weinheimer, F. L.
1313	1	Secord, C. D.
1314	1	Grant, C. J.
1315	12	MacGregor, Wilson
1319	3	Anderson, Wm.
1321	4	Anderson, Mathew
1328	11	Ames, Augustus
1329	4	Peterson, Peter A.
1330	4	Johnston, John M.
1334	2	Akers, E. C.
1344	6	Preston, John R.
1351	4	Mahon, Walter M.
1352	4	Leckie, Frederic
1355	7	Christie, Charles
1356	7	Baker, Harris W.
1359	3	Higgie, J. F.
1360	7	Dailey, Michael
1361	4	Faragher, William
1362	3	Sinclair, Cyrus H.
1363	3	Elliott, Frank
1368	4	Anderson, Chas. A.

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Pennant	Lodge	Name
1369	1	Vrooman, Geo. H.
1371	8	Van Gorder, Chas.
1374	7	Callam, Alex. C.
1377	7	Robinson, Salem O.
1381	3	Lamoreaux, Joseph
1384	4	Bartel, A. E.
1385	1	White, A. E.
1386	4	Ferguson, John A.
1387	4	Brand, August
1388	1	Klock, E. M.
1392	1	Peterson, M. S.
1393	1	Clark, John C.
1394	4	Johnson, Martin
1395	4	Nordahl, Arnold
1397	7	Baker, Burton S.
1402	8	Markle, S. J.
1403	4	Goodwin, Jas. F.
1408	7	Wilson, Wm.
1410	7	Talbot, Geo. E.
1411	7	Anderholt, L. P.
1412	1	Stevenson, Wm. H.
1413	1	Saunders, Jas. M.
1415	4	MacLachlan, A. H.
1417	7	Forbes, Alexander
1421	8	Hill, Fred C.
1423	4	Banker, Geo. H.
1424	4	Light, F. W.
1425	3	Edwards, M. L.
1427	3	Bough, Chas.
1433	7	MacLean, Wm. J.
1434	7	Recor, Geo. F.
1435	7	Rattray, Chas.
1437	3	Kohnert, J. E.
1442	4	Keller, Alva B.
1443	7	Iler, Walter C.
1444	3	Olsen, John K.
1445	3	Cullnan, John
1446	4	Fitch, Edward
1447	7	Craig, John C.
1451	3	Jones, Harry
1453	3	McKay, Wm. J.
1454	4	Bailey, F. A.
1457	3	Fitch, Edward
1462	4	McDonald, Wm.
1464	1	Finegan, Owen P.
1465	7	Flaherty, Joseph
1466	7	Simpson, Fred J.
1467	9	Dunseith, John
1469	3	Tisdale, Geo. B.
1471	3	Wilson, Chas. H., Jr.
1472	4	Saph, Jay P.
1476	6	Sniffin, B. M.
1479	11	Jackson, Rich. C.
1480	4	Smith, Philip H.
1481	11	Johnson, Wm. H.
1482	4	Packer, Wm. H.
1483	4	Ellis, Frank S.
1487	9	Lyons, Jas. B.
1489	4	Stewart, Walter G.
1490	11	Lyons, Stephen A.
1491	4	Williams, Archie M.
1492	4	Dixon, Alfred
1493	4	Gould, Francis E.
1494	4	Ehrhart, John W.
1495	2	Cassin, Jas.
1497	1	Herbert, James G.
1498	3	Anderson, Sigverdt
1499	4	Benham, Geo. E.
1500	4	Thompson, Rob't
1501	4	Vanslet, Abram
1502	2	Hendricks, Edw.
1503	2	Bradshaw, John L.
1504	2	McLean, J. C.
1508	1	Clarke, W. E.
1513	6	Anderson, Gus. E.
1514	11	Warner, Walt. B.
1519	1	Dunn, Thos.
1522	4	Randall, A. E.
1523	4	Culp, Hamilton
1524	7	Pickell, E. S.
1525	6	Bennett, Geo. J.
1526	7	Gordon, D. G.

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Pennant	Lodge	Name
1527	6	Hendricksen, Otto
1528	4	Pringle, Rob't C.
1529	4	Ennes, Everett S.
1530	3	McGannon, Wm. P.
1531	14	Brown, Nelson
1533	4	Wood, J. S.
1534	8	Dupiue, Frederic A.
1534	6	Jones, Warren
1536	3	Evans, Rob't T.
1538	4	Murdock, John A.
1539	6	Dority, Frank A.
1540	7	Carr, Whitney
1541	7	Pocock, Henry A.
1542	4	Buchanan, James
1547	7	Hosner, V. L.
1548	7	Webster, Chas. T.
1549	4	McEwen, Henry W.
1550	4	Simmons, Thos. G.
1552	6	Garrity, Thomas
1553	4	Holdridge, George
1554	1	Doohen, John B.
1555	2	Hughes, Henry S.
1557	4	McGarry, George
1559	9	Lohr, John M.
1561	6	McShane, Daniel W.
1562	1	Milne, John
1563	4	Conkey, Charles M.
1566	6	DuClos, Napoleon
1568	3	Green, Arnold
1569	7	Archer, Arthur A.
1572	4	Moore, Frank
1573	1	Boggan, Moses
1574	3	Strahan, Louis F.
1576	9	Fox, J. C.
1577	4	Burt, George G.
1578	1	Kelley, Andrew
1580	4	Meeker, S. E.
1582	7	Merckel, C. G.
1584	1	Buckley, J.
1585	7	Gatfield, E. D.
1586	14	West, Fred A.
1587	4	Millikin, Wm.
1588	4	Grashaw, Walter
1589	4	Burns, T. C.
1590	2	Randall, Frank
1591	2	Thompson, W. F.
1592	7	Bain, A. J.
1593	4	Wilman, Dan
1595	4	Girardin, W. L.
1596	4	Gustafson, Peter
1597	7	Wilkinson, Chas.
1599	6	Coon, Geo.
1600	7	Girardin, D. C., Jr.
1602	7	Holt, James G.
1603	3	Johnson, Carl
1604	3	Johnson, Martin
1605	3	Bright, W. T.
1606	8	Kendall, Geo. B.
1607	3	Peterson, T. J.
1608	3	Evans, John
1609	2	Carlisle, Theo. J.
1610	1	Barclay, John
1612	7	Hansen, John T.
1616	8	McDonald, G. W.
1617	3	Lang, Julius
1619	3	McQueen, W. A.
1620	4	Ames, G. W.
1621	4	Walper, Henry
1622	4	Moore, S. S.
1623	7	Norvell, Walker
1625	7	Kennedy, James
1628	3	Woerpel, H.
1629	2	Fowler, Thomas
1631	7	McCarthy, John
1632	7	Barnes, Chas. E.
1635	6	Redner, Elmer E.
1637	4	Dawley, W. W.
1638	3	Shea, Jos. A.
1639	3	Willett, C. W.
1641	4	Anderson, P. A.
1643	7	Yates, Wm. H.
1644	7	Ludington, Lewis

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Pennant	Lodge	Name
1647	1	Weinheimer, E. W.
1648	1	Shaw, Edward L.
1649	1	Weinheimer, E. J.
1650	1	Kerr, Harry
1651	1	Brooks, Wm. H.
1652	1	McDonald, J. A.
1653	1	Gebhard, F. R.
1654	1	Stevenson, Thos.
1661	2	Knapp, R. H.
1664	2	Crooker, D. M.
1667	12	Pierce, W. L.
1668	2	Ditzel, Henry E.
1669	1	Watson, C. W.
1670	1	Drury, John E.
1672	14	Doner, James
1673	7	Brown, Claud D.
1675	4	Mooney, Wm.
1676	9	Sullivan, N. M.
1677	2	Stevenson, Wm.
1678	6	Lee, Iver M.
1679	4	Fowlie, Andrew
1680	3	Taylor, Edward
1682	3	McCauley, C.
1683	7	Dorry, Benj. B.
1684	2	Geel, Guy G.
1685	4	Massey, S. B.
1687	1	Koch, Robert
1688	7	Leonard, Roy M.
1689	7	Autterson, Chas.
1690	6	Kearns, Chas. J.
1691	6	Brownell, Jos. A.
1692	4	Stanley, Edward
1694	7	Morrison, J. N.
1695	1	Miller, Chas. F.
1696	6	Clausson, Gus T.
1698	4	Bell, G. A.
1698	3	Meyer, Gust.
1700	3	Anderson, Alex. A.
1701	3	Atkinson, Gus E.
1702	4	Moore, Wm. E.
1704	4	Mason, Chas. D.
1705	1	Acton, Joseph
1706	3	Trodahl, H. H.
1707	7	Hormig, Wm. F.
1709	4	Talbot, A. J.
1710	4	Robinson, John W.
1711	4	Reid, Wm. C.
1712	4	Storey, Wm. J.
1713	4	Morton, Edw. R.
1714	4	Birmingham, Jas.
1715	8	Booth, Wm. H.
1717	1	Crawford, Geo. B.
1719	1	Donahue, Joseph
1720	4	Olsen, Oscar
1721	8	Hetherington, N. M.
1722	3	Weaver, Geo. W.
1723	1	Gibson, James
1724	3	Morgan, M. F.
1725	7	McDonald, John A.
1726	1	O'Hagan, John
1727	1	Broderick, Benj.
1728	1	Hefferman, Jas.
1730	2	Crockett, Tyler J.
1732	2	Sawyer, E. S.
1733	10	Anderson, S. V.
1734	10	Leonard, M. A.
1736	10	Murphy, H. A.
1737	10	Nelson, Chas. O.
1738	10	Powers, John J.
1739	10	Dunn, Chas. A.
1740	10	Nelson, A. C.
1741	10	Russell, Henry
1743	10	Stitt, Wm. J.
1745	10	Smith, John J.
1746	10	Kinch, Geo. H.
1748	10	Maltby, Wm. G.
1749	10	Woods, Wm. V.
1753	1	O'Hagan, Hugh
1754	1	Hanley, Chas. C.
1756	1	Rolseng, Iver
1756	1	Holmberg, Henry
1757	1	McLaren, Benj. C.

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Marine Trade Especially

Phone Grand 236

6057 Grand Ave. Milwaukee, Wis.

Pennant	Lodge	Name
1760	1	Hefferman, T. N.
1760	1	Bennett, Chas. D.
1761	1	McMaugh, Archie A.
1762	1	Wilkinson, Rob't B.
1763	6	Mackey, Melvin
1765	6	Larson, N. L.
1766	14	Doner, Thos. F.
1767	2	Johnston, Martin
1768	2	Brown, Chas. D.
1769	11	Stewart, Mil'rd M.
1770	11	Stewart, Jas. P.
1771	11	Galton, F. D.
1772	11	Kendall, Douglas
1773	11	Heminger, F. R.
1774	11	Little, Nelson T.
1776	11	Kenworthy, Sam'l
1778	11	Moore, S. D.
1779	11	Grant, Theo.
1780	11	Smith, Sidney H.
1781	11	Mitchell, Alvin
1783	11	Ames, Wm. J.
1784	3	Simons, John
1785	7	Klinger, Geo. N.
1786	7	Hackett, Thos. H.
1787	7	DeNike, Lee C.
1788	1	Patterson, R. C.
1789	4	Logan, John A.
1790	1	Massey, Chester
1791	8	Marcero, Charles
1792	7	Peltier, Rob't D.
1793	2	Johnston, Jas.
1795	4	Thompson, M. S.
1798	7	Judson, H. W.
1799	10	McDonald, John
1800	10	Loveless, Fred
1801	3	MacMillan, John
1803	4	Durney, John
1804	4	Nelson, Olaf
1807	4	Perew, Frank D.
1809	1	Lucas, W. J.
1810	1	McClinton, W. D.
1811	1	Heaney, John C.
1812	1	Davis, Henry J.
1814	1	McLeod, Dugald
1815	7	Fox, Chas.
1816	4	Allen, Merton G.
1817	1	Montgomery, Jno. A.
1818	6	Oakley, James
1819	6	Carus, Edward
1820	14	Hollingshead, John
1821	4	Moore, Geo. W.
1822	4	Weitzman, C. A.
1826	7	Pearson, John J.
1827	7	Burns, Geo. C.
1829	7	Nesbit, W. K.
1830	7	Byers, J. Clarke
1832	7	Honner, G. W.
1833	6	McCauley, Chas.
1834	14	Hayward, Geo.
1836	2	Millard, Wm. L.
1836	14	Lowes, Jos. H.
1837	8	Williamson, P. L.
1838	8	Fehmer, Otto
1841	8	Young, Alex.
1842	8	Recor, Rob't Jas.
1843	4	Ritchie, W. S.
1844	1	Clarke, Jas. M.
1845	1	Chilson, W. E.
1848	8	Recor, Edgar O.
1851	7	Huntoon, Fred A.
1851	10	Delaney, Geo. J.
1852	7	Jagenow, Wm.
1854	7	McKay, Daniel
1855	7	Stuart, Thos. J.
1857	3	McKenzie, Ken.
1858	3	Post, Samuel G.
1860	6	Olson, Samuel
1861	6	Cavanaugh, J. F.
1863	10	Kiah, David, Jr.
1865	4	Noble, John
1866	4	McLeod, D. W.
1867	1	Abel, Wm.

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6057 Grand Ave. Milwaukee, Wis.

Pennant	Lodge	Name
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1762	1	Wilkinson, Rob't B.
1763	6	Mackey, Melvin
1765	6	Larson, N. L.
1766	14	Doner, Thos. F.
1767	2	Johnston, Martin
1768	2	Brown, Chas. D.
1769	11	Stewart, Mil'rd M.
1770	11	Stewart, Jas. P.
1771	11	Galton, F. D.
1772	11	Kendall, Douglas
1773	11	Heminger, F. R.
1774	11	Little, Nelson T.
1776	11	Kenworthy, Sam'l
1778	11	Moore, S. D.
1779	11	Grant, Theo.
1780	11	Smith, Sidney H.
1781	11	Mitchell, Alvin
1783	11	Ames, Wm. J.
1784	3	Simons, John
1785	7	Klinger, Geo. N.
1786	7	Hackett, Thos. H.
1787	7	DeNike, Lee C.
1788	1	Patterson, R. C.
1789	4	Logan, John A.
1790	1	Massey, Chester
1791	8	Marcero, Charles
1792	7	Peltier, Rob't D.
1793	2	Johnston, Jas.
1795	4	Thompson, M. S.
1798	7	Judson, H. W.
1799	10	McDonald, John
1800	10	Loveless, Fred
1801	3	MacMillan, John
1803	4	Durney, John
1804	4	Nelson, Olaf
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1812	1	Davis, Henry J.
1814	1	McLeod, Dugald
1815	7	Fox, Chas.
1816	4	Allen, Merton G.
1817	1	Montgomery, Jno. A.
1818	6	Oakley, James
1819	6	Carus, Edward
1820	14	Hollingshead, John
1821	4	Moore, Geo. W.
1822	4	Weitzman, C. A.
1826	7	Pearson, John J.
1827	7	Burns, Geo. C.
1829	7	Nesbit, W. K.
1830	7	Byers, J. Clarke
1832	7	Honner, G. W.
1833	6	McCauley, Chas.
1834	14	Hayward, Geo.
1836	2	Millard, Wm. L.
1836	14	Lowes, Jos. H.
1837	8	Williamson, P. L.
1838	8	Fehmer, Otto
1841	8	Young, Alex.
1842	8	Recor, Rob't Jas.
1843	4	Ritchie, W. S.
1844	1	Clarke, Jas. M.
1845	1	Chilson, W. E.
1848	8	Recor, Edgar O.
1851	7	Huntoon, Fred A.
1851	10	Delaney, Geo. J.
1852	7	Jagenow, Wm.
1854	7	McKay, Daniel
1855	7	Stuart, Thos. J.
1857	3	McKenzie, Ken.
1858	3	Post, Samuel G.
1860	6	Olson, Samuel
1861	6	Cavanaugh, J. F.
1863	10	Kiah, David, Jr.
1865	4	Noble, John
1866	4	McLeod, D. W.
1867	1	Abel, Wm.

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Pennant	Lodge	Name
1872	6	Stufflebeam, John A.
1873	6	McIsaac, Neil
1874	6	Crawford, John G.
1878	6	Hoxie, A. K.
1879	6	LaFleur, Wm. H.
1880	7	Williscroft, John E.
1884	6	Hays, John C.
1885	6	Evanson, Arnold
1886	3	Evans, Edw.
1887	4	Holmes, A. W.
1888	7	Ogden, B. F.
1890	10	Casey, Henry
1892	1	Apsey, A. W.
1893	7	Woodgrift, Chas. H.
1896	7	Palmer, Alfred J.
1897	7	Sauer, Geo.
1899	7	MacAulay, Geo.
1901	7	Lightbody, J.
1902	8	Utley, R. Z.
1903	8	Beall, A. R.
1904	8	Mitchell, Dana R.
1904	6	Alexander, Algie
1905	6	Sanders, H. L.
1906	6	Jenkyn, Alex.
1907	6	Zwemer, Everett
1908	6	Cartwright, Peter
1909	3	Jaenke, Herman M.
1910	3	Berensten, Jacob
1911	10	Gamash, Frederick J.
1914	11	Warner, W. E.
1915	14	Kenyon, Wm. S.
1916	9	Adams Joseph
1917	9	Zeim, Wm. C.
1919	14	Meno, Frank L.
1920	7	Gleason, John F.
1924	14	Hayward, E. H.
1926	1	Mallory, R. A.
1930	2	Cooper, J. E.
1933	6	Walle, Martin
1936	6	Richardson, Frank
1937	7	McGowen, Hugh L.
1941	6	Marsh, Sidney O.
1942	6	Tulledge, Bernard
1943	6	Thorsen, Louis
1945	1	Burns, James
1946	9	Holman, Henry
1947	9	Rose, Otto
1948	8	Ames, Francis C.
1949	14	Conlin, Thos. N.
1950	14	Rinn, J. B.
1951	2	Foster, John
1952	14	Smith, Alex. C.
1953	14	Autterson, Jos. W.
1954	4	Cowie, Andrew
1955	9	Warner, Raymond
1956	6	Voight, A. C.
1957	10	Stitt, James Monroe
1958	10	Stitt, Geo. P.
1959	1	Sexsmith, Sam'l
1960	8	Baird, John D.
1961	7	Cannolly, James T.
1962	1	Myers, Ralph D.
1963	1	Heppner, Philip
1964	14	Morse, A. R.
1967	8	Lavely, L. J.
1970	6	Franklin, W. E.
1973	4	Malott, J. W.
1974	3	Fischer, Robert
1975	3	Eger, W. W.
1976	1	Johnson, Alfred
1977	9	Cornwall, Alton W.
1978	9	Millard, Ralph B.
1979	6	Thrasher, Chas. R.
1981	3	Pardee, J. F.
1987	7	Davie, David W.
1988	7	Jones, Charles A.
1989	6	Ericksen, Henry
1990	8	McNeill, Walter H.
1991	10	Travis, Frederick
1994	7	Ernest, Chas. W.
1995	1	Morin, Thomas F.
1996	3	Leith, Wm. R.

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Even Cooks sail by charts and swear by certain range lights.

If the cook on your boat watches the "little things" he knows that Diamond Crystal Salt flavors food more perfectly and conforms to the highest standard of purity.

Each bag carries our slogan: "The Salt That's All Salt." Ask your cook to steer by that slogan and have him keep the salt shakers on your table supplied with Diamond Crystal Salt.

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Pennant	Lodge	Name
1997	2	Farley, Edward J.
1998	2	Krenkel, Chas. F.
1999	2	McDonald, J. E.
2000	8	Langell, Leonard P.
2001	4	Weaver, Jas. T.
2002	4	Dunn, P. H.
2003	10	Dessert, Wm. G.
2004	3	Hansen, Hans
2005	3	Lindale, T. T.
2006	1	Rinn, Wm.
2007	1	Ernest, Frank H.
2010	3	Morrison, Dougal
2011	1	Wiener, Fred E.
2012	1	Lavell, Nels.
2014	1	Jansen, Jacob C.
2016	1	McFadden, W. L.
2019	11	Galton, J. W.
2022	2	Friley, Herman W.
2023	12	Swenson, Albert
2024	12	Jones, Albert M.
2025	12	Glockle, M. B.
2027	12	Slater, Fred R.
2028	12	Chamberlain, Wm. B.
2030	12	Fox, Henry
2032	12	Doherty, John E.
2034	12	Brower, Harry F.
2037	12	Glenn, Martin E.
2038	12	Lloyd, Walter S.
2039	12	Murphy, Oswald
2041	12	Hoy, W. E.
2042	12	Green, Chas. H.
2043	12	Sullivan, D. T.
2044	12	Johnson, Henry
2046	12	McDougall, Thos.
2047	11	Atkinson, Geo. Ame.
2048	3	Elliott, Charles A.
2049	1	Green, Joseph M.
2050	1	Van Natta, Chas. F.
2053	6	Palm, Edward
2053	6	Peterson, Frank J.
2055	1	Coughlin, Michael
2057	4	Campbell, John
2058	4	Dodge, Wm. J.
2059	3	Crawford, J. M.
2061	3	Johnson, Geo. E.
2063	3	Byork, Oscar C.
2064	12	Clegg, Harry J.
2065	6	Rosie, William
2066	4	Zeland, Thomas J.
2067	3	Van Velzen, H.
2068	3	Thayer, C. R.
2069	14	Finnegan, Herbert
2070	11	Stewart, Harry W.
2071	11	Campbell, R.
2072	1	Worden, Scott
2073	1	Wiebe, Fred
2074	12	Gallagher, B. J.
2076	10	Woods, Arthur F.
2078	8	Burrows, Arthur W.
2079	7	Sullivan, Wm. E.
2080	7	Ellis, Claude A.
2081	3	Upham, Lucien
2082	1	Hutchins, H. J.
2084	12	England, Edward F.
2085	12	Hansen, Hans C.
2088	7	Pauls, Frederick H.
2091	8	Laffrey, Delos
2092	4	Nelson, S.
2093	4	Tufverson, N. P.
2094	3	Campbell, Walter
2095	2	Warwick, Ernest W.
2096	4	McLachlan, Wm. H.
2098	11	Townsend, Chas. A.
2099	3	Matson, Sigfred W.
2100	12	Gallagher, James H.
2101	6	Cook, Jacob F.
2103	14	Campbell, Robert
2104	14	Autterson, John
2105	14	Hartman, Augustus
2106	14	Burk, Jos. C.
2107	14	Brines, Jesse M.
2110	14	Hamilton, Wm. L.

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Pennant	Lodge	Name
2111	1	Larson, John A.
2112	6	Miller, Christian
2114	12	Greene, Peter
2116	4	Hughes, Joseph
2117	4	Glen, Alexander
2118	11	Morrison, E. R.
2120	11	Roe, Stephen J.
2121	3	McClintock, John
2122	6	Grimm, Otto C.
2123	6	Thorpe, John
2124	6	Mellan, Gunerius
2127	7	Sullivan, Thos. D.
2128	1	Williams, W. W.
2129	1	McCorkell, Wm. H.
2130	8	Wellhousen, H. C.
2131	4	Sturtevant, Fred C.
2132	12	Nelson, F. E.
2133	8	Plotter, Chas. L.
2134	4	Neville, R. J.
2135	4	Van Buskirk, John
2136	9	Lamb, Harry
2137	9	Slavin, James F.
2138	4	Pringle, Walter R.
2140	8	Henry, A. W.
2141	4	Dunn, W. R.
2143	10	Russell, Frank P.
2144	7	Morrison, Alvin A.
2145	7	McDougall, Wm. L.
2146	7	Loughlin, Geo. F.
2147	7	Perrault, Albert
2149	14	Jerome, Willis R.
2150	14	Brines, Samuel
2151	14	Doner, George R.
2152	14	Chambers, D. G.
2153	14	Aitken, H. J.
2154	3	Emersen, S. R.
2156	3	Seiderland, F. A.
2157	12	Cole, Martin
2158	12	Elden, Otto J.
2158	2	Montgomery, George A.
2159	4	Collins, Allen
2160	4	Wade, Frederick J.
2161	4	McDonald, John J.
2162	4	Wendorf, H.
2163	2	Thody, Fred W.
2164	14	Mussman, A.
2165	11	Perkins, Horace L.
2166	3	Anderson, Herbert E.
2167	3	Madden, John H.
2170	6	Andrews, Andrew
2171	1	Campbell, Chas.
2172	1	Delaney, Wm. F.
2173	12	Lyons, Geo. A.
2174	12	MacLeod, Andrew R.
2175	12	Seeley, Harrison D.
2176	4	Tilden, L. S.
2177	6	Roddy, Timothy
2178	14	Alexander, Robt.
2179	14	Albinson, Clarence R.
2180	12	Forbes, Arthur
2181	12	Lewis, Frank
2183	14	Linton, W. E.
2184	6	Holt, Carl A.
2187	1	Starkey, Mark J.
2188	1	Phillips, James J.
2189	2	Stockdale, Roy N.
2190	2	Sills, Arthur
2191	2	Ward, Peter
2192	11	Warner, Clarence W.
2193	11	Cole, F. S.
2194	12	Ege, Gustaf
2195	7	Littlejohn, Wm.
2196	7	Beauvais, Harry
2197	7	McDonald, Fred
2198	4	Moes, W. H.
2199	4	Morrison, Wm. F.
2199	7	McLachlan, Donald
2200	15	McKay, Norman
2201	8	McCannel, J.
2203	15	McKay, M.
2204	15	McKay, Angus G.
2205	15	McIntyre, R.

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Pennant	Lodge	Name
2206	15	Hogue, Archie
2207	15	Davis, J. F.
2208	15	Nolan, Dan
2209	15	McIntyre, A. B.
2210	15	Barreth, N.
2211	6	Larsen, James L.
2212	6	Johnson, Oscar A.
2213	8	Langell, Thomas
2215	6	Gallagher, Lester A.
2216	3	Peterson, Martin
2221	12	Gunderson, G.
2222	12	Pratt, Frank C.
2224	10	Curran, John F.
2224	4	McAlpine, Hugh
2225	8	Marcero, Arthur W.
2226	6	Kruwell, E. H.
2228	4	McGinnis, Geo. W.
2229	4	Rydholm, Carl A.
2230	4	Rourke, John
2232	4	Pitts, Oliver
2233	15	Pearson, John P.
2233	15	Cormett, Wm. E.
2234	15	Cormett, Daniel F.
2235	6	Fowler, Christa C.
2237	15	McCoy, Norman J.
2239	4	Rinn, Charles
2239	15	Olstrom, G. C.
2240	9	Dagon, Dennis
2241	2	Jamison, Alex. W.
2242	1	Healy, James J.
2243	2	Lott, Edgar O.
2244	3	McGarity, Daniel J.
2245	7	Sloan, Bernard J.
2247	4	Kane, R. L.
2248	15	Leaney, Harry
2249	15	Bishop, Joseph
2251	12	Dyrness, Ole
2252	12	Hector, Fred C.
2253	6	Petroskey, Walter
2254	4	Durkee, W. W.
2255	6	Kiel, Wm. Theo.
2256	7	Oman, Chas. H.
2256	7	Quinlan, Wm.
2257	3	Eaton, R. C.
2258	3	Risto, Ed.
2259	2	McMartin, Frank
2260	6	Leisk, Henry A.
2261	4	Rattray, E. Gordon
2262	4	Francis, Lawrence J.
2263	6	VanDyke, W. H.
2264	16	Bradden, John E.
2265	16	Gehl, Henry L.
2266	16	Ferguson, W. J.
2267	16	Marin, Oswald P.
2268	16	Morrison, Angus
2269	16	Richmond, U. G.
2270	16	Nuttall, Wm.
2271	16	Nuttall, Robert E.
2272	16	Nuttall, Allen S.
2273	16	Taylor, Wm. J.
2275	16	Fader, Alexander
2276	16	Friday, Joseph
2278	16	McLeod, Norman J.
2279	7	Parsons, Jos. W.
2279	16	Friday, Harry
2281	9	Pocock, Robert J.
2282	4	DeLand, W. A.
2283	6	McCauley, John P.
2284	2	Myers, George F.
2285	16	Garriock, W.
2286	16	McIver, George
2287	12	Johns, John F.
2288	12	Pinney, Jesse
2289	12	Rankin, Arthur E.
2290	15	Batten, A. A.
2291	4	Johnson, Roy E.
2292	4	Culp, John W.
2293	1	Barry, Fred
2294	1	Murphy, Charles
2295	1	Winter, John J.
2296	1	McPherson, A. J.
2297	6	Winkler, Herman

M·A HANNA & Co.

STEAMBOAT FUEL AT ASHTABULA

Large supplies of the **BEST** quality of fuel for steamers. Fuel scow with elevators and discharging spouts. Storage 800 tons. Discharges into steamers while unloading.

HANNA

Pennant	Lodge	Name
2298	14	Cahours, Edward
2299	14	Lawrence, Earl J.
2300	4	Levis, George
2301	10	Larosee, Hector
2302	10	Patenaude, Armand
2303	10	Robineau, Alban
2305	17	Burke, Roy
2306	17	Murphy, E. W.
2307	17	Carson, Wm.
2308	17	Madden, W. J.
2309	17	McLennan, Alex.
2310	17	German, Frank
2311	17	Lavigne, Wm. A.
2312	17	McIntosh, John A.
2313	17	Wilson, Roland J.
2314	17	Burke, Fred
2315	17	Cummingham, Wm. J.
2316	17	Burke, E. F.
2317	17	Jewell, W. J.
2318	17	Hill, Ira D.
2319	17	Burke, David J.
2320	17	Hudson, Arthur A.
2321	17	Hudson, J. H.
2322	17	Laking, Albert E.
2323	17	Legree, Joseph
2324	17	Napier, Joseph
2325	17	Stalker, Malcolm
2326	17	Nicholls, Bruce
2327	17	Dube, Edmond
2328	17	Burke, B.
2329	15	Frewer, Geo. D.
2330	15	Misner, Robt.
2331	3	Emigh, Herbert W.
2334	12	Ditzel, Edw. J.
2335	12	Bourassa, Albert
2336	12	Garner, Alfred D.
2336	8	Lockhart, Asa
2337	4	Amsbary, Walter F.
2338	6	Tilley, Robert G.
2339	10	Russell, Wm. R.
2340	3	Ferguson, James J.
2340	7	MacDonald, Alex.
2341	4	Robinson, Frank
2342	3	Gellich, B. J.
2342	4	Leroy, Thomas G.
2343	6	Norteman, L. W.
2344	6	Tobin, Gordon
2345	17	Beatty, Wilbur
2347	7	Reilly, Wm. S.
2348	1	Harrison, Wood
2349	1	Williams, John E.
2350	1	Oliver, Percy
2351	12	Ness, Martin O.
2352	10	Lago, Thomas
2353	6	Solway, Severt A.
2354	17	Gould, C. E.
2355	16	McGinnis, John J.
2356	16	Scott, J. A.
2357	16	Smith, Edward R.
2358	16	McIver, John
2359	16	Marcellias, W. C.
2360	16	Cassin, Josue
2361	16	McDonald, Angus
2362	4	Woodford, Roy F.
2364	6	Stufflebeam, Gerald E.
2365	12	Byers, John F.
2366	16	Garriock, James
2367	16	McDonald, Peter
2368	16	Alexander, Wm.
2369	4	Christensen, C. S. O.
2370	12	Munro, Wm. J., Jr.
2371	4	Gardner, Chas. B.
2372	4	McCarthy, Patrick
2373	4	Scheible, Hermah J.
2374	12	Ege, Louis
2375	12	La Vaque, John C.
2376	12	Miller, Thos.
2377	4	Pilzer, W. J.
2378	4	Full, Peter
2379	7	McCarthy, J. P.
2380	4	Kentosh, M. J.
2381	3	Hillstrand, Herman

WHEN ASHORE

HAVE YOUR TICKET READ

$OO LINE

SHORT LINE

CHICAGO
MILWAUKEE } BETWEEN { DULUTH
SUPERIOR

ALL STEEL TRAINS

ST. PAUL
MINNEAPOLIS } BETWEEN { DULUTH
SUPERIOR

SAFETY and COURTESY
ALWAYS

Pennant	Lodge	Name
2382	1	McKenzie, Alex.
2383	1	Sellon, Daniel
2384	1	Spaulding, Henry W.
2385	12	Roberts, Burdette J.
2386	12	Stemman, John J.
2387	3	Topic, Peter
2388	3	Cummings, George
2389	14	Recor, Joseph F.
2390	4	Slade, J. J.
2391	4	Martin, Peter J.
2392	7	Mitchell, Harry
2393	12	Gibson, Norman
2394	6	Newbauer, Walter
2395	1	Kennedy, John
2396	10	Woods, James
2397	1	Carr, James
2398	6	Quackenbush, Emmet
2399	10	Tooden, Frank
2400	3	Brookhyser, Geo.
2401	15	Campbell, Thomson
2402	17	Beatty, A. W.
2403	4	Bush, Chas. A.
2404	2	Hayes, John E.

OFFICERS OF SUBORDINATE LODGES.

Buffalo Lodge, No. 1: John A. Montgomery, president; Iver Rolseng, first vice president; Thomas Stevenson, second vice president; Edward L. Shaw, secretary; John B. Hall, treasurer; Frank Gebhard, chaplain; Daniel Coughlin, marshal; James Burns, warden; Jeremiah Buckley, sentinel; delegate to Grand Lodge, John A. Montgomery; alternate, Iver Rolseng.

Port Huron Lodge, No. 2: E. C. Ackers, president; D. M. Crooker, first vice president; Alex. Jamieson, second vice president; D. M. Sinclair, secretary-treasurer; E. C. Ackers, delegate to the Grand Lodge; H. Maitland, alternate.

Chicago Lodge, No 3: J. F. Higgie, president; L. A. Rand, vice president; W. W. Egger, second vice president; Robt. Young, treasurer; M. F. Morgan, secretary; C. H. Hubbard, delegate to Grand Lodge; L. A. Rand, alternate.

Cleveland Lodge, No. 4: A. M. Williams, president; M. G. Allen, first vice president; W. Grashaw, second vice president; J. A. Holmes, secretary; F. L. Leckie, treasurer; C. R. Cleveland, marshal; G. L. Cottrell, chaplain; H. C. Eldridge, warden; F. Sturtevant, sentinel.

Milwaukee Lodge, No 6: Frank A. Dority, president; Peter Cartwright, vice president; Arnold Evanson, second vice president; F. C. Maxon, treasurer; John McSweeney, secretary; Michael Dailey,

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2372	4	McCarthy, Patrick
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2376	12	Miller, Thos.
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SOO LINE

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Milwaukee Lodge, No 6: Frank A. Dority, president; Peter Cartwright, vice president; Arnold Evanson, second vice president; F. C. Maxon, treasurer; John McSweeney, secretary; Michael Dailey,

The American Ship Building Co.

Builders of

IRON AND STEEL STEAMSHIPS

¶ Marine and Stationary Engines, Marine, Stationary and Portable Boilers, High Class Engines and Boilers for Power Stations.

Sheet and Plate Iron Workers
Machinists and Founders

OFFICE AND WOKS

2017 VIADUCT, CLEVELAND, OHIO

SHIP YARD AND DRY DOCK

Division Ave., Foot of West 45th Street and Lorain, Ohio

trustee, three years; Wm. Jamieson, chaplain; Henry Bennett, marshal; Harry A. Leisk, warden; Otto Hendricksen, sentinel; F. A. Dority, delegate.

Toledo Lodge. No. 9: Jas. McKinley, president; H. Lamb, first vice president; R. J. Pocock, second vice president; E. G. Ashley, secretary and treasurer; H. N. Jex, chaplain; N. M. Sullivan, marshal; John Dunseith, warden; Otto Rose. sentinel; A. W. Stalker, delegate to Grand Lodge; E. G. Ashley, alternate.

Ogdensburg Lodge, No. 10: F. P. Russell, president; Fred. Travis, first vice president; W. V. Woods. second vice president; M. A. Leonard, secretary and treasurer; W. J. Stitt, delegate to the Grand Lodge meeting; M. A. Leonard, alternate.

Twin Ports Lodge, No. 12: C. H. Green, president; D. T. Sullivan, first vice president; Wm. E. Hoy, second vice president; Albert Swenson, secretary and treasurer; Thos. A. McDougall, chaplain; Wm. B. Chamberlain, marshal; F. Slater, warden; Jesse Pinney, sentinel; D. T. Sullivan, delegate to Grand Lodge; Thos. A. McDougall, alternate.

St. Clair Lodge, No. 14: Jos. Lowes, president; Joseph Autterson, first vice president; A. R. Morse, second vice president; Jos. Burk, chaplain; Richard O'Connor, treasurer; Frank L. Meno. secretary; Jno. T. Autterson, marshal; Thomas Conlin, warden; Earl Lawrence, sentinel; Joseph Lowes, Grand Lodge representative; Frank L. Meno, alternate.

Owen Sound Lodge, No. 15: Capt. McKay, president; A. G. McKay, first vice president; D. F. Cornett, second vice president; W. E. Cornett, secretary; Geo. Pearson, chaplain; G. C. Ostrom. marshal; N. Barrett, sentinel; Jos. Bishop, financial secretary and treasurer; Geo. Waugh, warden.

Thunder Bay Lodge. No. 16. William J. Ferguson, president; Norman J. McLeod, first vice president; John Bradden, second vice president; Oswald P. Marin, secretary and treasurer; Harry Friday, chaplain; Henry L. Gehl, marshal; William J. Taylor, warden; William R. Staunton, sentinel; Geo. Stitt, delegate for Grand Council; O. P. Marin, alternate.

Midland Lodge, No. 17: A. A. Hudson, president; Alex MacLennan, first vice president; W. J. Madden, second vice president; R. J. Wilson, treasurer; W. A. Lavigne, financial secretary; W. B. Kitchen, chaplain; A. E. Laking, marshal; W. C. Gidly, warden; Jos. Legree, sentinel.

J. P. BROGAN

GROCER

Marine Supplies

1386-1388 25th Street N. W.

TWO LAUNCH DELIVERIES

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CLEVELAND, OHIO

STATEMENT SHOWING ASSESSMENTS COLLECTED BY LODGE DURING THE YEAR 1914

Lodge No. 1	Buffalo	$2158.00
Lodge No. 2	Port Huron	1018.00
Lodge No. 3	Chicago	1952.00
Lodge No. 4	Cleveland	3586.00
Lodge No. 6	Milwaukee	1636.00
Lodge No. 7	Detroit	2526.00
Lodge No. 8	Marine City	694.00
Lodge No. 9	Toledo	606.00
Lodge No. 10	Ogdensburg	490.00
Lodge No. 11	Algonac	460.00
Lodge No. 12	Twin Ports	670.00
Lodge No. 14	St. Clair	552.00
Lodge No. 15	Owen Sound, Ont.	290.00
Lodge No. 16	Thunder Bay, Ont.	292.00
Lodge No. 17	Midland, Ont.	302.00
Total assessments.		$17232.00

During the year 1914 eight assessments were called and fifteen claims paid.

J. & R. WEIR, Lim.

Engineers, Boilermakers & Machinists

Steel Boat Builders

Nazareth and Brennan Sts. MONTREAL, QUE.

PITTSBURGH COAL CO.

General Offices:
Henry Oliver Building, Pittsburgh, Pa.

Lake Shipping and Fuel Departments:
Rockefeller Building, Cleveland, Ohio

FUFL LIGHTERS AND LOADED DOCKS AT ALL LOWER LAKE PORTS

Detroit River Fuel Dock, Sandwich, Ont.
Lime Island Dock - Soo River
North Pier Dock at - Chicago, Illinois

WE HANDLE ONLY BEST GRADES OF PITTSBURGH & YOUGHIOGHENY COAL

MEMBERSHIP IN EACH LODGE

Name	No. of Lodge	Good Standing
Buffalo	1	140
Port Huron	2	70
Chicago	3	122
Cleveland	4	228
Milwaukee	6	108
Detroit	7	160
Marine City	8	45
Toledo	9	38
Ogdensburg	10	35
Algonac	11	28
Twin Ports	12	48
St. Clair	14	37
Owen Sound	15	21
Fort William	16	27
Midland	17	24
Toronto	18	
Total		1131

Donnelly Wrecking & Salvage Co.
Limited
KINGSTON, ONTARIO

Tugs, Lighters, Steam Pumps, Divers, etc.
Supplied on Shortest Notice

JOHN DONNELLY
Pres. and Gen. Mgr.

Office Phone, 528
Private Phones, 437 and 49

BRIGGS HOUSE

Randolph and Fifth Avenue **CHICAGO**

One Block from City Hall Square

Location Most Central

200 Modern Rooms
Restaurant Facilities Unsurpassed

RATES

Per Day, $1.00 and up; with Bath, $1.50 and up

STATE BANK OF CHICAGO

Corner LaSalle and Washington Streets

Capital, Surplus and Undivided Profits $3,700,000

3% Interest Paid on Savings

OFFICERS

L. A. Goddard - - President
Henry S. Henschen - Cashier
Walter J. Cox - Asst. Cashier
C. Edward Carlson Asst. Cashier
Henry A. Haugan, Vice-President
Frank I. Packard, Asst. Cashier
Edward A. Schroeder, Asst.Cash'r
Samuel E. Knecht - Secretary

BOARD OF DIRECTORS

David N. Barker
Mgr. Jones & Laughlin Steel Co.
Theo. Freeman
Retired Merchant
Henry A. Haugan
Vice-President
Oscar H. Haugan
Mgr. Real Estate Loan Dept.
Wm A. Peterson
Proprietor Peterson Nursery
J. J. Dau
President Reid, Murdock & Co.
L. A. Goddard
President
H. G. Haugan
Ex. Compt. C., M. & St. P. Ry. Co.
A. Lanquist
President Lanquist & Illsley Co.
George E. Rickords
Chicago Title & Trust Co.

Moses J. Wentworth, Capitalist

This bank now has to its credit 35 years of conservative banking, 40,000 satisfied customers with over $25,000,000 of deposits. Your account is welcome whether small or large.

DEATH CLAIMS PAID, YEAR 1914

Name	Lodge No.	Claim Paid	Date of Death	Am't. Pd.
A. J. Greenley	4	Feb. 9, 1914	1-2-14	$1000.00
C. Rieley	1	Feb. 24, 1914	1-18-14	1000.00
A. Sommers	4	Apr. 27, 1914	11-9-13	1000.00
C. W. Lockwood	4	May 12, 1914	4-1-14	1000.00
G. R. Longly	1	June 8, 1914	5-10-14	1000.00
R. McDowell	4	June 20, 1914	4-17-14	1000.00
L. Willet	4	June 20, 1914	4-19-14	1000.00
F. Maitre	6	Sept. 15, 1914	8-18-14	1000.00
J. Q. Owen	7	Oct. 2, 1914	9-14-14	1000.00
W. Firby	7	Dec. 16, 1914	10-18-14	1000.00
Jas. Gibson	1	Dec. 16, 1914	10-31-14	1000.00
J. B. Warner	9	Dec. 16, 1914	11-4-14	1000.00
P. O'Neil	1	Dec. 16, 1914	11-6-14	1000.00
A. Greer	1	Dec. 16, 1914	11-7-14	1000.00
J. P. Young	7	Dec. 16, 1914	11-16-14	1000.00
Total death claims paid				$15000.00

Phone Cedar 155 Launch Delivery

J. MILLER

GROCERIES, PROVISIONS, ETC.

Fresh Fruit and Vegetables (Foreign and Domestic)

We also attend to your Laundry

Near Det. Iron & Steel Co. Dock

2335-2337 W. Jefferson Ave. DETROIT, MICH.

FOR TWENTY-THREE YEARS

THE CLEVELAND PLAIN DEALER'S

MARINE

NEWS

HAS BEEN THE STANDARD OF EXCELLENCE FOR THE WHOLE CHAIN OF GREAT LAKES AND *IT STILL IS*

REPORT OF MEMORIAL COMMITTEE

To the Grand Lodge Ship Masters' Assn. at Washington assembled:

We, the Memorial Committee, submit the following:

We are pleased to report a mercifully short record of fatalities among members of our association either through illness or in consequence of the hazardous vocation they so dauntlessly and cheerfully followed. Though deeply grateful that the bereavements are fewer in number those brothers who are taken from us will be truly missed and their places are memories faithfully preserved.

We herewith respectfully submit names of the deceased:

A. J. GRINLY
CORNELIUS REILLY
H. H. CUMMINGS
C. W. LOCKWOOD
G. R. LONGLY
ROBT. McDOWELL
LUKE WILLET
JAMES McALLISTER
FRANK MAITRY
J. C. OWEN
W. T. PURLY
JAMES GIBSON
J. B. WARNER
PATRICK O'NEIL
ALEX. GREER
J. P. YOUNG
JOHN DISSET

F. A. Dority,
J. H. Lowes,
J. A. Montgomery.

THOS. F. FISHER & SON

Wholesale and Retail Dealers In

Fresh and Salt Meats of all kinds
Beef, Veal, Mutton, Lamb, Pork
Sausages and Poultry

Steamboat and Vessel Supplies a specialty

All Orders Promptly attended to

PRESCOTT, ONT.

In Memory

Of Brother Shipmasters who have departed this life since the Association was Organized

John A. Archer
D. M. Becker
J. P. McArthur
Thomas Collins
I. H. Andrews
John Nelson
P. J. Sexton
J. P. Hodges
John Cotton
H. J. Hatch
Edward Condon
John Condon
Thomas Riordan
James Carlisle
Benj. Chambers
Henry Ellis
John Keelin
Robert Hayes
Albert Meyers
P. G. Minch
Peter J. Kenney
A. Muir
A. W. Reed
P. Ryan
E. W. Dorsey
E. K. Porter
L. H. Weeks
P. Woods
W. E. Ladner
H. A. Sisson
H. B. Vosburg
George Scott
Thomas Maytham
E. M. Peck
S. Shannon
Jno. R. Gorman
Thos. Harbottle
James Frasier
Louis Guthrie
George W. Stoddard
Albert Meswald
D. M. Jones
James Webber
Thomas Rowley
R. E. Gain
F. J. Purcell
William Carlisle

N. Robinson
Edward Kelley
H. C. Little
Alexander Read
Smith Moore
John C. Flor
Thomas Hackett
Fred G. Boothman
John Wilson
Peter J. Girard
Eugene Winchester
John Cornish
Thomas Beniteau
Patrick Pardee
Zach Sargisson
Alpha Simons
John R. Donahue
J. B. McManus
C. S. Geel
W. H. Cowin
W. S. Mack
Byron Brown
Lorenzo W. Cook
Bernard Wilds
David Critchett
Wm. G. Turner
Robt. Moore
J. S. Lawton
J. W. Farwell
J. W. Martin
Peter Cromley
Thos. Cowan
C. A. Peltier
Thos. H. Stafford
Wm. H. Wallace
Daniel Jones
James Snell
Henry Root
Chas. W. Black
John N. Lundy
John Freer
Alvin Neal
F. J. Cadotte
J. B. Pierce
James Drake
John C. Brown
Delos Waite

John S. Van Rensler
D. H. Bryant
Peter C. Bassett
A. A. Cox
Joseph Nicholson
A. Morrison
John W. Jordan
Wm. Young
Fred N. La Salle
Albert Stewart
F. J. McCabe
James Lawless
John Hagan
John Hurley
John Leonard
Jos. L. Munger
J. W. Moore
Chas. Miner
Morton H. Place
W. H. Larrabee
J. D. Mullen
James Edgecomb
Joseph Shackett
Thomas Walker
Wm. Rolls
E. Saveland
W. H. McNelly
James Donegan
E. T. Hawley
F. D. Welcome
P. Ryan
Wm. Cumming
Wm. Hutcheson
W. R. Williams
C. T. Morley
Thos. Richardson
William Cavers
Martin Johnston
Wm. Morse
John Buie
M. W. Gotham
Henry Jeffrey
C. H. Lewis
L. H. Waterbury
J. C. Carry
A. C. Reimers
E. W. Haskins

B. C. Gray
D. A. McLaughlin
Henry Berlin
Warren Morris
W. W. Brown
J. R. Sinclair
Louis Ryerse
Wm. Dickson
Richard Neville
Charles Brown
F. W. Stanton
R. H. White
A. P. Clinton
Edmund Fitzgerald
J. Harrington
John Jenkins
John McCarthy
James Parsons
W. C. Godsell
John Coulter
J. C. Thompson
F. A. Chalcraft
Maurice Barrett
Francis Nixon
T. H. Howland
Wm. Shanks
P. A. Anderson
James Doyle
John McNeff
Joseph S. Parsons
Frank Nixon
C. M. Davis
Henry Dawson
Charles McCrea
George King
T. C. Ellis
Daniel Wall
C. B. Chatterson
James W. Millen
J. H. Green
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C. F. Moore
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LIFE-SAVING STATIONS ON THE LAKES

Lake Ontario

Big Sandy—North side mouth of Big Sandy creek.
Oswego—East side entrance of Oswego harbor.
Charlotte—East side entrance of Charlotte harbor.
Niagara—East side entrance of Niagara river.

Lake Erie

Buffalo—South side entrance of Buffalo harbor.
Erie—North side entrance of Erie harbor.
Ashtabula—West side of Ashtabula harbor.
Fairport—West side entrance of Fairport harbor.
Cleveland—West side entrance of Cleveland harbor.
Marblehead—Point Marblehead, near quarry docks.

Lake Huron

Lake View Beach—Five miles north of Ft. Gratiot light.
Harbor Beach—Inside Harbor Beach harbor.
Point aux Barques—Near lighthouse.
Port Austin—About two miles northeast of Port Austin and about two miles southeast of Port Austin reef light.
Tawas—Near lighthouse.
Sturgeon Point—Near lighthouse.
Thunder Bay Island—West side of island.
Middle Island—North end of the island.
Hammond—Hammond's bay.
Bois Blanc—About midway east side of island.

Lake Superior

Vermilion—Ten miles west of Whitefish Point.
Crisps—Eighteen miles west of Whitefish Point.
Two Heart River—Near mouth of Two Heart river.
Deer Park—Near mouth of Sucker river.
Grand Marais, Mich.—West of harbor entrance.
Marquette—Near lighthouse.
Portage—Old Portage Lake ship canal, three-fourth mile from north end, on east bank.
Duluth—On Minnesota point, upper Duluth.

Lake Michigan

Beaver Island—Near lighthouse.
Charlevoix—South side of harbor entrance.
North Manitou Island—Near Pickards wharf.
South Manitou Island—Near lighthouse.
Sleeping Bear Point—Near Glen Haven.
Point Betsie—Near lighthouse.
Frankfort—South side entrance of harbor.
Manistee—North side entrance of harbor.
Grande Pointe au Sable—One mile south of light.
Ludington—North side entrance of harbor.
Pentwater—North side entrance of harbor.
White River—North side entrance of White Lake.
Muskegon—South side entrance of harbor, Port Sherman.
Grand Haven—North side entrance of harbor.
Holland—In the harbor, south side.
South Haven—North side entrance of harbor.
Saint Joseph—In the harbor, north side.
Michigan City—East side entrance of harbor.
South Chicago—North side entrance of Calumet harbor.
Jackson Park—About seven miles S. by E. of Chicago river light.
Old Chicago—In the harbor.
Evanston—On the Northwestern University grounds.
Kenosha—In the harbor, on Washington Island.
Racine—In the harbor, adjoining light.
Milwaukee—Near entrance of harbor, south side.
Sheboygan—Entrance to harbor, north side.
Two Rivers—North side entrance of harbor.
Kewaunee—North side entrance of harbor.
Sturgeon Bay Canal—Eastern entrance of canal, north side.
Bailey's Harbor—On easterly side of harbor.
Plum Island—Near northeast point of island, two miles northwest of Pilot Island light.

CANALS FROM LAKES TO ATLANTIC

The Canadian canals, which have made it possible for a vessel drawing 14 ft. of water to reach the Atlantic from the lakes, are as follows, beginning down the St. Lawrence river: Lachine canal, 8½ miles; Soulanges canal, 14 miles; Cornwall canal, 11 miles; Farran's Point canal, 1 mile; Rapid plat canal, 3 2-8 miles; Galops canal, 7 1-3 miles; Welland canal, 26¾ miles; total, 72 2-8 miles. The River St. Lawrence with the system of canals established on its course above Montreal, and the lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles. From the Straits of Belle Isle, at the mouth of the St. Lawrence to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from 10 to 12 ft. were formerly barred from passage for the greater part of the season of navigation. In 1826 the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 ft. 6 in. By the year 1869 this depth had been increased to 20 ft., by 1882 to 25 ft., and by the close of 1888 the depth of 27½ ft. at low water was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888 assumed the indebtedness incurred. The channel has a minimum width of 300 ft., extending to 550 ft., at points of curvature. It is lighted and buoyed.

Montreal has by this work been placed at the head of ocean navigation and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upward is obstructed, and giving access, through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie

canal to the head of Lake Superior. The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases and Lake Superior is about 600 ft. The total lockage (or height directly overcome by locks) from tide water to Lake Superior is 552 ft. The number of locks through which a vessel would pass in its passage from Montreal at the head of ocean navigation, to the head of Lake Superior, is forty-seven.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length 270 ft., width 45 ft., depth of water on sills 14 ft. The length of the vessels to be accommodated is limited to 256 ft. At Farran's point in the canal of that name the lock is 800 ft. long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

Leading particulars of the Lachine canal are as follows: Length, 8½ statute miles; number of locks, five; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 45 ft.; depth of water on sills at two locks, 18 ft., and at three locks, 14 ft.; average width of new canal, 150 ft. The old lift locks, 200 ft. by 45 ft., are still available with 9 ft. of water on mitre sills. The depth of the canal between locks is now adapted to vessels of 14 ft. draught. The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end. The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of a series of rapids which bars the ascent of the river St. Lawrence.

Dimensions of the Soulanges canal are: Length of canal, 14 miles; number of locks, lift four, guard one; dimensions of locks, 280 ft. by 45 ft.; total rise on lockage, 84 ft.; depth of water on sills, 15 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft.; number of arc lights, 219 of 2,000 candle power each. The canal extends from Cascade Point to Coteau landing, overcoming the Cascade rapids, Cedar rapids and Coteau rapids.

Dimensions of the Cornwall canal are: Length of canal, 11 miles; number of locks, 6; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 48 ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft. The old lift locks, 200 ft. by 45 ft., are also available with 9 ft. of water on mitre sills. From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis of 32¾ miles, which is being made navigable for vessels drawing 14 ft. The

Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickenson's landing.

The Farran's point, Rapide plat and Galops canals are collectively known as the Williamsburg canals. Dimensions of the Farran's point canal are: Length of canal, one mile; number of locks, one; new lock, 800 ft. by 45 ft.; old lock, 200 ft. by 45 ft.; total rise or lockage, 3½ ft.; depth of water on sills of new lock at ordinary water level, 14 ft.; depth of water on sills of old lock at ordinary water level, 9 ft.; breadth of canal at bottom, 90 ft.; breadth of canal at water surface, 154 ft. From the head of Cornwall canal to the foot of Farran's point canal the distance on the St. Lawrence river is five miles. The latter canal enables vessels ascending the river to avoid the Farran's point rapids passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

Particulars of the Rapide plat canal are as follows: Length of canal, 3 2-3 miles; number of locks, two; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 11½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 152 ft. The old lift lock, 200 ft. by 45 ft., is also available with 9 ft. of water on mitre sills. From the head of Farran's point canal to the foot of Rapide plat canal there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

Dimensions of the Galops canal are: Length of canal, 7½ miles; number of locks, three; dimensions of locks (two), 270 ft. by 45 ft., (one) 800 ft. by 45 ft.; total rise or lockage, 15½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 144 ft. From the head of Rapide plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. This canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

Dimensions of the Murray canal (extending through the Isthmus of Murray, giving connection westward between the head waters of the bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation), are: Length between eastern and western pierheads, 5½ miles; breadth at bottom, 80 ft.; breadth at water surface, 120 ft.; depth below lowest known lake level, 11 ft.; no locks.

The Welland canal is too well known to require extended description. Its main line runs from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie. The Welland canal has two entrances from

Lake Ontario at Port Dalhousie, one for the old and the other for the new canal. From Port Dalhousie to Allanburgh, 11¾ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line. From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

It is but just to state that considering its population and resources Canada has done vastly more for its waterways than has the United States. The sum of $75,000,000 is mentioned as a conservative estimate of the money which the Dominion government spent in its canals before a dollar's worth of commerce could adequately utilize them. No commercial enterprise in the world can tell a similar story of faith and confidence in itself. The placing of 14 ft. as the maximum depth for the canals seems strange in the light of today; but it must be remembered that when the system of canals was designed it was supposed that a 14 ft. waterway would be ample for all time upon the great lakes. The depth which at that time vessel men were looking forward to upon the lakes was a uniform one of 12 ft. The great steel carrier was not even a dream then of the most daring of minds.

CHECKING UP COURSES

By Charles A. Benham

The following is a good and reliable method of checking up courses, when from the state of the weather or sun bearings cannot be taken, with the "polaris."

Courses On Lake Superior Using Soo River Ranges

Iroquois Pt. to Whitefish Pt.—Port ⅛ point from course on head of St. Mary's river range.

Whitefish Pt. to Copper Harbor—Same as Bayfield Rock Range.

Eagle Harbor to Devil Island—Starboard ¼ point from course on St. Mary's River Lower Range.

Eagle Harbor to La Pointe—Port ⅝ point from course on Pt. Aux Pins Range.

Devil Island to Duluth—Port ½ point from course shown on Pt. Aux Pins Range.

Devil Island to Two Harbors—Port ⅜ point from course shown on St. Mary's River lower range.

Whitefish Point to Passage Island—Port ⅛ point from course shown with Round Island Range over stern.

Whitefish Point to Battle Island—Port ⅛ point from course with Upper St. Mary's River over stern.

Whitefish Point to Pt. Au Sable—Port ½ point from course with Vidal Shoal over stern.

Pt. Au Sable to Marquette—Starboard ⅛ point from course shown with Vidal Shoal Range over stern.

Whitefish Point to Huron Island—Port 1½ points from course shown with Vidal Shoal Range over stern.

Huron Island to Portage Entry—Port ¼ point from course shown with Vidal Shoal Range over stern.

Portage Ship Canal to Devil Island—Port ⅜ point from course shown with St. Mary's River lower range over stern.

Portage Ship Canal to La Point—Port ¼ point from course shown when heading on Pt. Au Pins Range.

Passage Island to Thunder Cap—Port ¼ point from course shown with Vidal Shoal Range over stern.

Courses On Lake Huron Using "Soo" River Ranges

Detour to Middle Island—Port ¼ point from course shown with Frechette Pt. range over stern.

Middle Island to Sand Beach—Starboard ⅛ point from course shown with Middle Hay Lake range over stern.

Sand Beach to Lake Huron Light Ship—Starboard ⅜ point from course shown with Frying Pan and Pipe Island in range over stern.

Nine Mile Pt. to Presque Isle—Starboard ½ point from course shown heading on Bayfield Rock range.

Detour to St. Martins Reef—Same course as steered with Vidal Shoal over stern.

St. Martin's Reef to Round Island—Port ½ point from course shown with Vidal Shoal over stern.

Detour to Ducks—Port ¼ point from course shown heading on St. Mary's River Upper Range.

Ducks to Cove Island—Starboard ⅛ point from course shown when on Bayfield Rock Range.

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Poes Reef to Cove Island—Starboard ⅛ point from course shown with Flower Pot and Cove Island in range ahead.

Compass Courses on Lake Michigan, Using Known Ranges

From Pt. Betsies to Chicago—Port ½ point from course steered through No. 2 cut in West Neebish bound down.

From Door to Chicago—Starboard ¼ point from course steered through No. 2 cut in West Neebish bound down.

From Gray's Reef to North Manitou—Port ⅜ point from course shown with Gray's Reef Light Vessel and White Shoal in range over stern; or starboard ⅛ point from course heading on range of Chicago Water Works Crib and Chicago Pierhead.

Chicago to Pt. Betsies'—Port ⅜ point from course shown with S. E., Breakwater and Chicago Water Works Crib in range over stern.

Chicago to Door—Starboard ¼ point from range of S. E. Breakwater and Chicago Water Works Crib.

From Pt. to Milwaukee—Starboard ¼ point from range of Gray's Reef and White Shoal.

Compass Courses On Lake Erie, Using Known Ranges

Buffalo to Erie—Same as range of pierhead light and town clock.

Buffalo to Fairport—Port ½ point from above range.

Buffalo to Long Point and S. E. Shoal—Starboard ¼ point from St. Mary's River lower range.

S. E. Shoal to Middle Gd.—Port ½ point from course on St. Mary's River upper range.

Middle Gd. to Bar Pt. Gas Buoy—Starboard ¾ point from Bayfield Rock range.

Bar Pt. to Toledo Light—Port ½ point course on Grassy Island North Channel range.

S. E. Shoal to Cleveland—Starboard ⅛ point from course on St. Mary's River upper range.

S. E. Shoal to Lorain—Port ¼ point from course shown with Frechette range over stern.

S. E. Shoal to Cleveland—Starboard ⅛ point from course shown heading on St. Mary's River upper range.

S. E. Shoal to Erie—Port ⅛ point from course shown when on Vidal Shoal range.

S. E. Shoal to Ashtabula—Port ¾ point from course shown when on Vidal Shoal range.

S. E. Shoal to Conneaut—Port ⅝ point from course shown when on Vidal Shoal range.

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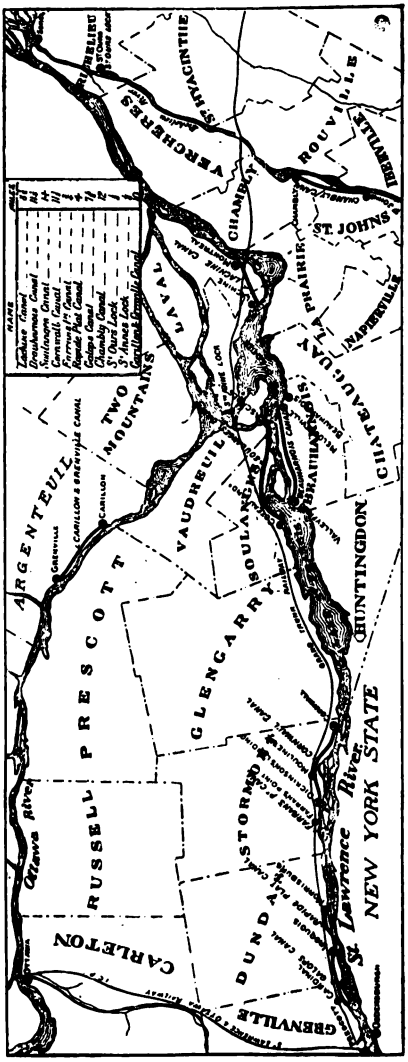

MAP SHOWING THE CANALS ON THE MONTREAL, OTTAWA AND RICHELIEU RIVERS INCLUDING THE NEW SOULANGES CANAL, AND TABLE OF DISTANCES.

Between Lake Erie and the sea there are seven Dominion canals, exclusive of the Beauharnois. They are the Welland, Galops, Rapide Plat, Farran's Point, Cornwall, Soulanges and Lachine. Their aggregate length is 70½ miles; the number of locks is fifty-three and the total lockage (or height directly overcome by locks) is 533 feet and 3 inches. The Welland canal, which has for several years past been of 14 feet navigation, and which extends from Port Colborne on Lake Erie to Port Dalhousie on Lake Ontario, is not shown in the illustration. The general scheme of canal enlargement now completed affected all the canals. None of the locks had the required depth and none had the desired dimensions of 270 feet in length and 45 feet in width. With the completion of the Soulanges canal the desired end was accomplished.

Harvey L. Brown

Proctor in Admiralty

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AZIMUTHS—A Correction of Compass Courses

(Contributed by Mr. Arthur Dovale, Nautical Expert, Cleveland)

The United States hydrographic office recommends the use of the azimuth tables to ascertain the error of the compass as a handy method and one that will assist in relieving the masters of vessels of great responsibility. The only book absolutely necessary for working azimuths are the "Azimuth Tables" (H. O. No. 106, price 50 cents). It is also necessary to have the equation of time and the declination, which can be found in the weekly "Notices to Mariners." These notices are distributed free of charge by the branch hydrographic offices. Better than these notices, however, for working azimuths is a copy of "The Sun's Apparent Declination and Equation of Time" (H. O. No. 118, price 10 cents), as it is good for a whole year, and also has tables for reducing standard time to local mean time. The following examples will cover all cases required on the Great Lakes:

Example No. 1

We will say that we are off Duluth on August 4, 1901, in latitude 46° 45′ N., longitude 92° 7′ W., variation 8° Ely. (The foregoing can all be found from a chart). Ship heading E. x N. We then take the bearing of the sun (by the same compass as we took the ship's heading) to be N. 78° 30′ E. and note the exact time by watch, set at say 90th meridian (central standard) time and find it to be 7h. 38m., a. m.

Time of observation	7h	38m	00s	(90th meridian)
Correction for longitude—		8	28	(from table III, H. O. No. 118)
Local mean time	7	29	32	
Equation of time	—	5	55	(from table I, H. O. No. 118)
Local apparent time	7	23	37	

From table I, (H. O. No. 118) we find that the sun's declination for August 4 is N. 17°+, which is of the same name as our latitude, therefore, we look for latitude 47° (as 46° 45′ is nearer 47° than 46°) and find it on page 107 (H. O. No. 106); then under the column marked 17° and opposite 7h 30m, we find the sun's true bearing.

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=N. 94° 25′E., and opposite 7h 20m, we find the sun's true bearing =N. 92 32 E.

Difference for 10 minutes	= 1° 53′=60′+53′=113′
Difference for 1 minute	= 11.3′
Difference for 3½ minutes	= 11.3′x3.5′=40′
Sun's true bearing for 7h 20m	=N.92° 32′E.
Correction for 3½ minutes	=+ 40
Sun's true bearing for 7h 23m 37s	=N.93 12 E.
Variation	=— 8 Ely (See note "A")
Sun's magnetic bearing	=N.85 12 E.
Sun's compass bearing	=N.78 30 E.
Deviation for E.xN. course	= 6° 42′Ely (See note "B")

Note "A"—Since the magnetic north is 8° east of the true north, the sun's magnetic bearing must be 8° less than its true bearing.

Note "B"—Since there are a less number of degrees and minutes from the sun's bearing to the compass north than from the sun's bearing to the magnetic north, the compass north must be to the east of the magnetic north; hence the easterly deviation. Had the compass bearing of the sun been N. 92° 18′ E then the compass north would have been 7° 06′ W. of the magnetic north and we would have had 7° 06′ W. deviation.

EXAMPLE No. 2

Off Cleveland, O., Dec. 31, 1901.

Latitude, 41° 30′ N., longitude, 81° 40′ W., variation, 2° 11′ Wly. Ship heading, S. S. W.; sun's bearing, N. 129° 36′ W.; time, 3h. 20m. p. m. (90th meridian).

Time of observation	3h 20 00s p. m.	
Cor. for long	+ 33 20	(from table III, H.O. No. 118)
L. M. T	3 53 20	
Eq. of time	— 2 57	(from table I, H. O. No. 118)
L. A. T	3h 50m 23s	

From table I, (H. O. No. 118) we find that the sun's declination for Dec. 31 is S. 23°+, which is of opposite name to our latitude; therefore, we look on page 179, or 180, of H. O. No. 106, and in the column marked 23°+ at the top.

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and opposite 3h 50m, we find S. T. B.	= N. 128° 35′ W.		
" " 4h 00m, we find S. T. B.	= N. 126° 49′ W.		
Diff. for 10 minutes	= 1° 46′	= 60′ + 46′ = 106′	
Diff. for 1 minute	=		10.6′
Diff. for 23 sec., or 2-5 minutes	= 10.6x2-5 = 4′		
so that we have, S. T. B. for 3h 50m	= N. 128° 35′ W.		
Cor. for 23s	= — 4′		
S. T. B. for 3h 50m 23s	= N. 128° 31′ W.		
Variation (see Note A)	— 2 11 Wly.		
Sun's mag. bearing	= N. 126° 20′ W.		
Sun's comp. bearing	= N. 129° 36′ W.		
Dev. for course S. S. W.	3° 16′ Ely.		

Note "A"—Since the magnetic north is 2° 11′ west of the true north, the sun's magnetic bearing must be 2° 11′ less than its true bearing.

Note "B"—Since there are a greater number of degrees and minutes from the sun to the compass north, than from the sun to the magnetic north, we have easterly deviation.

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BAROMETER READINGS

This table of Barometer Readings and the weather indicated is contributed by **Capt. C. W. Watson,** who says that he has used it for five years and has found that nine times out of ten it can be depended upon.

Wind Barometer Tables for the Great Lakes

Height of Barometer Lake Level	Direction of Wind	Character of Wind and Weather Indicated
29.40 to 29.60 and steady	West	Fair, slight changes in Temperature, gentle to fresh winds.
29.40 to 29.60 rising	West	Fair, cooler, fresh west to northwest winds.
29.40 to 29.60 falling	South	Warmer, increasing southerly winds.
29.60 or above falling rapidly	East to South	Warmer, rain or snow within 36 hours, increasing east to southeast winds.
29.60 or above rising rapidly	West to North	Cool and clear, quickly followed by warmer variable winds.
29.60 or above steady	Variable	No immediate change but wind will go to south inside of 36 hours.
29.40 or below falling slowly	South to East	Rain or snow, increasing easterly winds.
29.40 or below falling rapidly	South to East	Rain or snow, high easterly winds, followed within 48 hours by clearing, cooler west to northwest winds.
29.40 or below rising slowly	South to West	Clearing, colder, fresh to brisk west to northwest winds.
29.20 or below falling rapidly	South to East	Severe storm of wind and rain, wind shifting to northwest within 36 hours.
29.20 or below falling rapidly	East to North	Severe northeaster, with heavy rain or snow, and winds backing to northwest.
29.20 or below rising rapidly	Going to West	Clearing and cooler, probably cold wave in winter.

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CONVERSION OF GEOGRAPHICAL OR STATUTE MILES INTO NAUTICAL OR SEA MILES

Statute Mile, 5,280 ft.; Nautical Mile, 6,080 ft.

(Prepared by Capt. Henry Leisk, Milwaukee)

Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile
1.00	0.868	8.00	6.947	15.00	13.026	22.00	29.105
1.25	1.085	8.25	7.164	15.25	14.243	22.25	19.322
1.50	1.302	8.50	7.381	15.50	13.460	22.50	19.539
1.75	1.519	8.75	7.598	15.75	13.677	22.75	19.756
2.00	1.736	9.00	7.815	16.00	13.894	23.00	19.973
2.25	1.953	9.25	8.032	16.25	14.111	23.25	20.190
2.50	2.171	9.50	8.250	16.50	14.328	23.50	20.407
2.75	2.388	9.75	8.467	16.75	14.546	23.75	20.625
3.00	2.605	10.00	8.684	17.00	14.763	24.00	20.842
3.25	2.822	10 25	8.901	17.25	14.980	24.25	21.059
3.50	3.039	10 50	9.118	17.50	15.197	24.50	21.276
3.75	3.256	10.75	9.335	17.75	15.414	24.75	21.493
4.00	3.473	11.00	9.552	18.00	15.631	25.00	21.710
4.25	3.690	11.25	9.769	18.25	15.848	25.25	21.927
4.50	3.907	11.50	9.986	18.50	16 065	25.50	22 114
4.75	4.125	11.75	10 203	18.75	16.282	25.75	22.361
5.00	4 342	12.00	10.421	19.00	16.500	26.00	22.578
5.25	4 559	12.25	10.638	19.25	16.717	26.25	22.796
5.50	4.776	12.50	10 855	19.50	16.934	26.50	23.013
5.75	4.993	12 75	11.072	19 75	17.151	26.75	23.230
6.00	5.210	13.00	11.289	20.00	17.368	27.00	23.447
6.25	5.427	13 25	11.506	20.25	17.585	27.25	23.664
6.50	5.644	13 50	11.723	20.50	17.802	27.50	23.881
6.75	5.861	13 75	11.940	20.75	18.019	27.75	24.098
7.00	6.078	14 00	12.157	21.00	18.236	28.00	24.315
7.25	6.296	14 25	12.375	21.25	18.453	28.25	24.532
7.50	6.513	14 50	12.592	21.50	18.671	28.50	24.750
7.75	6.730	14.75	12.809	21.75	18.888	29.00	25.184

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CONVERSION OF NAUTICAL OR SEA MILES INTO GEOGRAPHICAL OR STATUTE MILES

Statute Mile, 5,280 ft.; Nautical Mile, 6,080 ft.

(Prepared by Capt. Henry Leisk, Milwaukee)

Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile
1.00	1.151	7 00	8.060	13.00	14.969	19.00	21.878
1.25	1.439	7.25	8.348	13.25	15.257	19.25	22.166
1.50	1.729	7.50	8.636	13.50	15.545	19.50	22.454
1.75	2.015	7.75	8.924	13.75	15.833	19.75	22.742
2.00	2.303	8 00	9.212	14.00	16.121	20.00	23.030
2.25	2.590	8 25	9.500	14.25	16.409	20.25	23.318
2.50	2.878	8 50	9.787	14 50	16.696	20.50	23.606
2.75	3.166	8 75	10.075	14.75	16.984	20.75	23.893
3.00	3.454	9 00	10.393	15.00	17.272	21.00	24.181
3.25	3.742	9 25	10.675	15.25	17.560	21.25	24.469
3.50	4.230	9 50	10.939	15.50	17.848	21.50	24.757
3.75	4.318	9.75	11.227	15.75	18.136	21.75	25.045
4.00	4.606	10 00	11.515	16.00	18.424	20.00	25.333
4.25	4.893	10.25	11.803	16.25	18.712	22.25	25.621
4.50	5.181	10 50	12.090	16.50	18.999	22.50	25.909
4.75	5.469	10.75	12.378	16.75	19.287	22.75	26.196
5.00	5.757	11 00	12.666	17.00	19.575	23.00	26.484
5.25	6.045	11.25	12.954	17.25	19.863	23.25	26.772
5.50	6.333	11 50	13.242	17.50	20.151	23.50	27.060
5.75	6.621	11.75	13.530	17.75	20.439	23.75	27.348
6.00	6.909	12 00	13.818	18.00	20.727	24.00	27.636
6.25	7.196	12 25	14.106	18.25	21.015	24.25	27.924
6.50	7.484	12 50	14.393	18.50	21.303	24.50	28.212
6.75	7.772	12.75	14.681	18.75	21.590	25.00	28.787

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UNITED STATES HYDROGRAPHIC OFFICE

The United States Hydrographic office, navy department, Washington, D. C, maintains branch offices on the great lakes as follows: Buffalo, Post Office Building; Sault Ste. Marie, 17 Federal Building; Duluth, 1000 Torrey Building.

Masters of vessels are invited to call on arrival in port. Nautical charts and sailing directions on hand for inspection by the shipping public. Information affecting nautical charts regularly received. Nautical inquiries are investigated and answered. "Notices to Mariners," "U. S. Light Lists," and other periodical publications are distributed. Barometers are compared. All services are free.

Captains are earnestly requested to cooperate with the branch hydrographic offices in their work of collecting and distributing information useful to lake marines, by sending to them reports of buoys adrift, lights or gas buoys not lighted, shoals, wrecks, or any other dangers to navigation.

CARRYING MEMBERS AS MATES

The following resolution presented by Marine City Lodge was adopted by the Grand Lodge Ship Masters' Association, at its annual meeting in Buffalo, January, 1910:

Whereas, Several members of this Association serve in the capacity of mate during the sailing season.

Therefore, Be it Resolved, That members who are masters of ships, when in need of a mate, give a member of this Association the preference when it can be done, all things being equal.

SIGNALS—DECK AND ENGINE ROOM

Rules and regulations of the United States steamboat inspection service relating to starting, stopping and backing signals for the Great Lakes provide that there shall be used between the master or pilot and engineer the following code of signals, to be made by bell or whistle, namely:

1 whistle or 1 bell	Go ahead
1 whistle or 1 bell	Stop
2 whistles or 2 bells	Back
3 whistles or 3 bells	Check
4 whistles or 4 bells	Strong
4 whistles or 4 bells	All right

Two whistles or two bells shall always mean back, irrespective of other signals previously given.

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WIND SIGNALS ON LAKE SUPERIOR

Winds expected for the western end of Lake Superior are announced by whistle signals of the United States weather bureau. Signals are blown daily at 10 a. m. by the whistle of elevator "E," Duluth, Minn. The Imperial Mills, Duluth, Minn., also blow these signals at 10 p. m. during the navigation season, whenever the information then at hand is of special importance to vesselmen.

Force of Wind—Light (1 to 5 miles per hour) 1 long whistle; fresh (6 to 14 miles per hour), 2 long whistles; brisk (15 to 24 miles per hour), 3 long whistles; high (25 miles and upwards per hour), 4 long whistles; north, northeast, east, 1 short whistle; southeast, south, 2 short whistles; southwest, west, northwest, 3 short whistles; variable, 4 short whistles.

Duration of whistles: Short, 2 seconds; long, 6 seconds.

Examples: For "brisk northwest winds" there is blown first a prolonged "attention" whistle; then three long and three short whistles. For "light northeast shifting to brisk westerly winds" the "attention" whistle is blown first and then one long, one short, three long, three short.

BRIDGE SIGNALS

Buffalo, N. Y.

Michigan and Ohio street bridges over Buffalo creek, South Michigan street bridge over City Ship (Blackwell) canal, Ohio basin slip bridge and Evans slip bridge ..... 3 blasts
Hamburg turnpike and B. C. R. R. bridges, upper end of city ship (Blackwell) canal ..... 3 long 3 short
International bridge, Niagara river ..... 1 long
Ferry street bridge, Black Rock harbor ..... 3 blasts
International bridge, Black Rock harbor ..... 1 long

Tonawanda, N Y.

Tonawanda island bridge and Tonawanda creek bridge ..... 3 blasts

Ashtabula, O.

Ashtabula bridges; county highway and L. S. & M. S. Ry. .... 1 long

Cleveland, O.

L. S. & M. S. Ry. bridge ..... 1 long 2 short
Old River bed bridges .....1 long 1 short 1 long 1 short
Main street bridge ..... 2 long blasts
Superior street viaduct ..... 3 long blasts
Valley Ry. bridge and all others above it in the main river ..... 1 long 2 short 1 long

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Lorain, O.

City bridge ..... 1 long 2 short
N. Y. C. & St. L. Ry. bridge ..... 3 long

Toledo, O.

All bridges in main river ..... 3 blasts
Dayton slip bridge ..... long short long short
Swan Creek—
L. S. & M. S. Ry. and Perry street bridge ..... long short long
St. Clair street bridge ..... 1 long 2 short
Erie street bridge ..... 3 long
Clover Leaf Ry. bridge ..... 3 long

Duluth, Minn.

When approaching aerial bridge over Duluth Canal ..... 3 short
Interstate bridge ..... 1 long 1 short 1 long
Minnesota draw, Northern Pacific bridge ..... 1 long 2 short
Wisconsin draw, Northern Pacific bridge .....2 long 2 short
Grassy Point bridge ..... 2 short 1 long
Lamborn Ave. bridge ..... 3 short
New Duluth transfer bridge ..... 3 long

Chicago, Ill.

Chicago Revised Code prescribes 3 short for Chicago river and branches and Calumet river. By local custom 4 short are sounded going northward only for C. & N. W. Ry. bridge at Kinzie street and for C., M. & St. P. Ry. bridge at North avenue.

Milwaukee, Wis.

In Milwaukee 3 short whistles is the general bridge signal. There is excepted from this the bridge across the Menominee river at the foot of West Water street, and also the railroad bridge about a half block east of the West Water street bridge, as well as the bridge of the Chicago & Northwestern Ry. company across the Kinnickinnic, between Kinnickinnic avenue and Clinton street. For these exceptions the signal is four short blasts. Another exception is the Point street bridge, entrance to Green Bay canal, for which the signal is two short blasts.

Green Bay, Wis.

Fox River—
Main street ..... 2 short 1 long
Walnut street ..... 1 long 2 short
Mason street ..... 1 long 1 short 1 long
Railroad and East River bridges ..... 3 long

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AN ORDINANCE

Regulating the Harbor and City Bridges in the City of Toledo

Be it Ordained by the Council of the City of Toledo, State of Ohio:

Section 1. It shall be unlawful for any person or persons to propel, or cause to be propelled, any boat on the Maumee river inside the City Limits of the City of Toledo, at a rate of speed exceeding Six Miles per hour. The provisions of this section shall not be construed as applying to passenger boats, sand-suckers or tugs. The speed of the boats herein mentioned shall not exceed Eight Miles per hour.

Section 2. It shall be unlawful for any person or persons to cause any boat to tow more than one boat at a time through any draw-bridge in the City of Toledo.

Section 3. No bridge draw shall be opened for boats that are not propelled by power, unless they are towed by a power boat.

Section 4. The provisions of Sections 1, 2 and 3 hereof shall not be construed as applying to gasoline power boats and yachts, and the provision of Section 2 hereof shall not be construed as applying to scows.

Section 5. All city bridges shall be closed to navigation from the hours of 6:30 a. m. to 7:30 a. m., and from 5 p. m. to 6 p. m.

Section 6. Any person violating any of the provisions of Section 1 or Section 2 hereof, shall be guilty of a misdemeanor, and, upon conviction thereof, shall be fined not to exceed Three Hundred Dollars.

Section 7. This ordinance shall take effect and be in force from and after the earliest period allowed by law.

Passed May 20th, 1912.

On and after July 15th, 1912, this ordinance will be enforced by order of A. W. Boardman, Director of Public Service.

A. W. Boardman,
Director of Public Service.

John Dunseith,
Supt. of Bridges.

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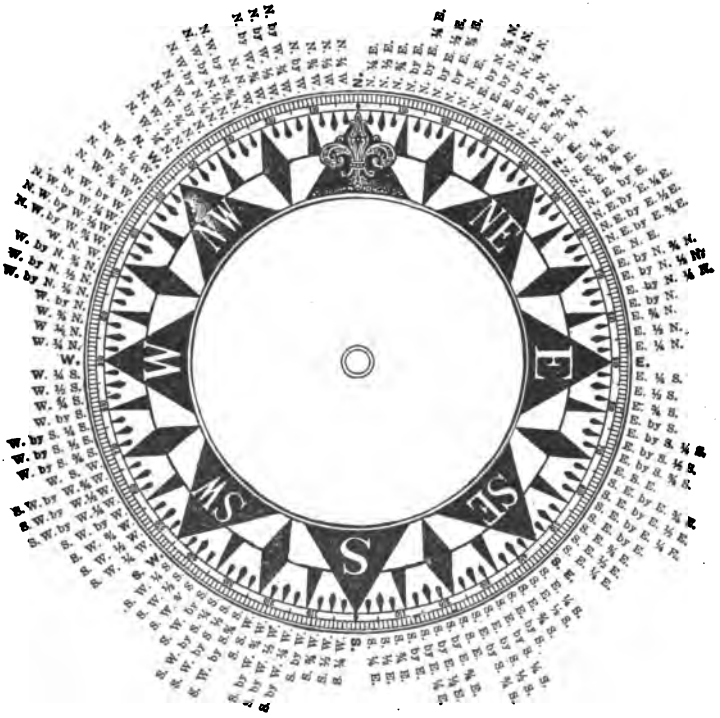

THE COMPASS

The Chinese claim to have invented the Compass in the year 2634 B. C., but the earliest date that they appear to have used it at sea was about 300 A. D.

The Italians have always contended that Flavio Gioza of Amalfa, Italy, invented the Compass in the year 1362 A. D., but it has been proven that the Compass was well known as a nautical instrument long before that date.

° ′	POINTS	° ′′	POINTS	° ′′	POINTS	° ′′	POINTS
0 00	N	45 00	NE	90 00	E	135 00	SE
0 42		45 42		90 42		135 42	
1 24	N ⅛ E	46 24	NE ⅛ E	91 24	E ⅛ S	136 24	SE ⅛ S
2 07		47 07		92 07		137 07	
2 49	N ¼ E	47 49	NE ¼ E	92 49	E ¼ S	137 49	SE ¼ S
3 31		48 31		93 31		138 31	
4 13	N ⅜ E	49 13	NE ⅜ E	94 13	E ⅜ S	139 13	SE ⅜ S
4 55		49 55		94 55		139 55	
5 38	N ½ E	50 38	NE ½ E	95 38	E ½ S	140 38	SE ½ S
6 20		51 20		96 20		141 20	
7 02	N ⅝ E	52 02	NE ⅝ E	97 02	E ⅝ S	142 02	SE ⅝ S
7 44		52 44		97 44		142 44	
8 26	N ¾ E	53 26	NE ¾ E	98 26	E ¾ S	143 26	SE ¾ S
9 08		54 08		99 08		144 08	
9 51	N ⅞ E	54 51	NE ⅞ E	99 51	E ⅞ S	144 51	SE ⅞ S
10 33		55 33		100 33		145 33	
11 15	N x E	56 15	NE x E	101 15	E x S	146 15	SE x S
11 57		56 57		101 57		146 57	
12 39	N x E ⅛ E	57 39	NE x E ⅛ E	102 39	ESE ⅞ E	147 39	SSE ⅞ E
13 22		58 22		103 22		148 22	
14 04	N x E ¼ E	59 04	NE x E ¼ E	104 04	ESE ¾ E	149 04	SSE ¾ E
14 46		59 46		104 46		149 46	
15 28	N x E ⅜ E	60 28	NE x E ⅜ E	105 28	ESE ⅝ E	150 28	SSE ⅝ E
16 10		61 10		106 10		151 10	
16 53	N x E ½ E	61 53	NE x E ½ E	106 53	ESE ½ E	151 53	SSE ½ E
17 35		62 35		107 35		152 35	
18 17	N x E ⅝ E	63 17	NE x E ⅝ E	108 17	ESE ⅜ E	153 17	SSE ⅜ E
18 59		63 59		108 59		153 59	
19 41	N x E ¾ E	64 41	NE x E ¾ E	109 41	ESE ¼ E	154 41	SSE ¼ E
20 23		65 23		110 23		155 23	
21 06	N x E ⅞ E	66 06	NE x E ⅞ E	111 06	ESE ⅛ E	156 06	SSE ⅛ E
21 48		66 48		111 48		156 48	
22 30	NNE	67 30	ENE	112 30	ESE	157 30	SSE
23 12		68 12		113 12		158 12	
23 54	NNE ⅛ E	68 54	ENE ⅛ E	113 54	SE x E ⅞ E	158 54	S x E ⅞ E
24 37		69 37		114 37		159 37	
25 19	NNE ¼ E	70 19	ENE ¼ E	115 19	SE x E ¾ E	160 19	S x E ¾ E
26 01		71 01		116 01		161 01	
26 43	NNE ⅜ E	71 43	ENE ⅜ E	116 43	SE x E ⅝ E	161 43	S x E ⅝ E
27 25		72 25		117 25		162 25	
28 08	NNE ½ E	73 08	ENE ½ E	118 08	SE x E ½ E	163 08	S x E ½ E
28 50		73 50		118 50		163 50	
29 32	NNE ⅝ E	74 32	ENE ⅝ E	119 32	SE x E ⅜ E	164 32	S x E ⅜ E
30 14		75 14		120 14		165 14	
30 56	NNE ¾ E	75 56	ENE ¾ E	120 56	SE x E ¼ E	165 56	S x E ¼ E
31 38		76 38		121 38		166 38	
32 21	NNE ⅞ E	77 21	ENE ⅞ E	122 21	SE x E ⅛ E	167 21	S x E ⅛ E
33 03		78 03		123 03		168 03	
33 45	NE x N	78 45	E x N	123 45	SE x E	168 45	S x E
34 27		79 27		124 27		169 27	
35 09	NE ⅞ N	80 09	E ⅞ N	125 09	SE ⅞ E	170 09	S ⅞ E
35 52		80 52		125 52		170 52	
36 34	NE ¾ N	81 34	E ¾ N	126 34	SE ¾ E	171 34	S ¾ E
37 16		82 16		127 16		172 16	
37 58	NE ⅝ N	82 58	E ⅝ N	127 58	SE ⅝ E	172 58	S ⅝ E
38 40		83 40		128 40		173 40	
39 23	NE ½ N	84 23	E ½ N	129 23	SE ½ E	174 23	S ½ E
40 05		85 05		130 05		175 05	
40 47	NE ⅜ N	85 47	E ⅜ N	130 47	SE ⅜ E	175 47	S ⅜ E
41 29		86 29		131 29		176 29	
42 11	NE ¼ N	87 11	E ¼ N	132 11	SE ¼ E	177 11	S ¼ E
42 53		87 53		132 53		177 53	
43 36	NE ⅛ N	88 36	E ⅛ N	133 36	SE ⅛ E	178 36	S ⅛ E
44 18		89 18		134 18		179 18	

° ′	POINTS	° ′	POINTS	° ′	POINTS	° ′	POINTS
180 00	S	225 00	SW	270 00	W	315 00	NW
180 42		225 42		270 42		315 42	
181 24	S ⅛ W	226 24	SW ⅛ W	271 24	W ⅛ N	316 24	NW ⅛ N
182 07		227 07		272 07		317 07	
182 49	S ¼ W	227 49	SW ¼ W	272 49	W ¼ N	317 49	NW ¼ N
183 31		228 31		273 31		318 31	
184 13	S ⅜ W	229 13	SW ⅜ W	274 13	W ⅜ N	319 13	NW ⅜ N
184 55		229 55		274 55		319 55	
185 38	S ½ W	230 38	SW ½ W	275 38	W ½ N	320 38	NW ½ N
186 20		231 20		276 20		321 20	
187 02	S ⅝ W	232 02	SW ⅝ W	277 02	W ⅝ N	322 02	NW ⅝ N
187 44		232 44		277 44		322 44	
188 26	S ¾ W	233 26	SW ¾ W	278 26	W ¾ N	323 26	NW ¾ N
189 08		234 08		279 08		324 08	
189 51	S ⅞ W	234 51	SW ⅞ W	279 51	W ⅞ N	324 51	NW ⅞ N
190 33		235 33		280 33		325 33	
191 15	S x W	236 15	SW x W	281 15	W x N	326 15	NW x N
191 57		236 57		281 57		326 57	
192 39	S x W ⅛ W	237 39	SWxW ⅛ W	282 39	WNW ⅞ W	327 39	NNW ⅞ W
193 22		238 22		283 22		328 22	
194 04	S x W ¼ W	239 04	SWxW ¼ W	284 04	WNW ¾ W	329 04	NNW ¾ W
194 46		239 46		284 46		329 46	
195 28	S x W ⅜ W	240 28	SWxW ⅜ W	285 28	WNW ⅝ W	330 28	NNW ⅝ W
196 10		241 10		286 10		331 10	
196 53	S x W ½ W	241 53	SWxW ½ W	286 53	WNW ½ W	331 53	NNW ½ W
197 35		242 35		287 35		332 35	
198 17	S x W ⅝ W	243 17	SWxW ⅝ W	288 17	WNW ⅜ W	333 17	NNW ⅜ W
198 59		243 59		288 59		333 59	
199 41	S x W ¾ W	244 41	SWxW ¾ W	289 41	WNW ¼ W	334 41	NNW ¼ W
200 23		245 23		290 23		335 23	
201 06	S x W ⅞ W	246 05	SWxW ⅞ W	291 06	WNW ⅛ W	336 06	NNW ⅛ W
201 48		246 48		291 48		336 48	
202 30	SSW	247 30	WSW	292 30	WNW	337 30	NNW
203 12		248 12		293 12		338 12	
203 54	SSW ⅛ W	248 54	WSW ⅛ W	293 54	NWxW ⅞ W	338 54	N x W ⅞ W
204 37		249 37		294 37		339 37	
205 19	SSW ¼ W	250 19	WSW ¼ W	295 19	NWxW ¾ W	340 19	N x W ¾ W
206 01		251 01		296 01		341 01	
206 43	SSW ⅜ W	251 43	WSW ⅜ W	295 43	NWxW ⅝ W	341 43	N x W ⅝ W
207 25		252 25		297 25		342 25	
208 08	SSW ½ W	253 08	WSW ½ W	298 08	NWxW ½ W	343 08	N x W ½ W
208 50		253 50		298 50		343 50	
209 32	SSW ⅝ W	254 32	WSW ⅝ W	299 32	NWxW ⅜ W	344 32	N x W ⅜ W
210 14		255 14		300 14		345 14	
210 56	SSW ¾ W	255 56	WSW ¾ W	300 56	NWxW ¼ W	345 56	N x W ¼ W
211 38		256 38		301 38		346 38	
212 21	SSW ⅞ W	257 21	WSW ⅞ W	302 21	NWxW ⅛ W	347 21	N x W ⅛ W
213 03		258 03		303 03		348 03	
213 45	SW x S	258 45	W x S	303 45	NW x W	348 45	N x W
214 27		259 27		304 27		349 27	
215 09	SW ⅞ S	260 09	W ⅞ S	305 09	NW ⅞ W	350 09	N ⅞ W
215 52		260 52		305 52		350 52	
216 34	SW ¾ S	261 34	W ¾ S	306 34	NW ¾ W	351 34	N ¾ W
217 16		262 16		307 16		352 16	
217 58	SW ⅝ S	262 58	W ⅝ S	307 58	NW ⅝ W	352 58	N ⅝ W
218 40		263 40		308 40		353 40	
219 23	SW ½ S	264 23	W ½ S	309 23	NW ½ W	354 23	N ½ W
220 05		265 05		310 05		355 05	
220 47	SW ⅜ S	265 47	W ⅜ S	310 47	NW ⅜ W	355 47	N ⅜ W
221 29		266 29		311 29		356 29	
222 11	SW ¼ S	267 11	W ¼ S	312 11	NW ¼ W	357 11	N ¼ W
222 53		267 53		312 53		357 53	
223 36	SW ⅛ S	268 36	W ⅛ S	313 36	NW ⅛ W	358 36	N ⅛ W
224 18		269 18		314 18		359 18	

TABLE FOR CONVERTING COMPASS COURSES INTO DEGREES, MINUTES AND SECONDS

(A Favor from Frank Henrich, Nautical Expert, Duluth)

Points	Number	Degrees °	′	″	Number	Points
North						South
	0	0	0	0	0	
	⅛	1	24	22	⅛	
	¼	2	48	45	¼	
	⅜	4	13	07	⅜	
	½	5	37	30	½	
	⅝	7	01	52	⅝	
	¾	8	26	15	¾	
	⅞	9	50	37	⅞	
N. by E.....N. by W.	1	11	15	00	1	S. by W....S. by E.
	⅛	12	39	22	⅛	
	¼	14	03	45	¼	
	⅜	15	28	07	⅜	
	½	16	52	30	½	
	⅝	18	16	52	⅝	
	¾	19	41	15	¾	
	⅞	21	05	37	⅞	
N. NE.....N. NW.	2	22	30	00	2	S. SW. ..... S. SE.
	⅛	23	54	22	⅛	
	¼	25	18	45	¼	
	⅜	26	43	07	⅜	
	½	28	07	30	½	
	⅝	29	31	52	⅝	
	¾	30	56	15	¾	
	⅞	32	20	37	⅞	
NE. by N..NW. by N.	3	33	45	00	3	SW. by S..SE. by S.
	⅛	35	09	22	⅛	
	¼	36	33	45	¼	
	⅜	37	58	07	⅜	
	½	39	22	30	½	

		⅝	40	46	52	⅝	
	¾		42	11	15	¾	
		⅞	43	35	37	⅞	
NE. ..... NW.		4	45	00	00	4	SW. ..... SE.
		⅛	46	24	22	⅛	
	¼		47	48	45	¼	
		⅜	49	13	07	⅜	
	½		50	37	30	½	
		⅝	52	01	52	⅝	
	¾		53	26	15	¾	
		⅞	54	50	37	⅞	
NE. by E. NW. by W.		5	56	15	00	5	SW. by W. SE. by E.
		⅛	57	39	22	⅛	
	¼		59	03	45	¼	
		⅜	60	28	07	⅜	
	½		61	52	30	½	
		⅝	63	16	52	⅝	
	¾		64	41	15	¾	
		⅞	66	05	37	⅞	
E. NE. ..... W. NW.		6	67	30	00	6	W. SW. .... E. SE.
		⅛	68	54	22	⅛	
	¼		70	18	45	¼	
		⅜	71	43	07	⅜	
	½		73	07	30	½	
		⅝	74	31	52	⅝	
	¾		75	56	15	¾	
		⅞	77	20	37	⅞	
E. by N.....W. by N.		7	78	45	00	7	W. by S...E. by S.
		⅛	80	09	22	⅛	
	¼		81	33	45	¼	
		⅜	82	58	07	⅜	
	½		84	22	30	½	
		⅝	85	46	52	⅝	
	¾		87	11	15	¾	
		⅞	88	35	37	⅞	
East ..... West		8.	90	00	00	8	West ..... East

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DRY DOCKS OF THE GREAT LAKES—DIMENSIONS, DRAUGHT OF WATER, ETC.

(From the 1913 Edition of the Blue Book of American Shipping, Copyrighted.)

PLACE	NAME OF DOCK	LENGTH On blocks	LENGTH over all	WIDTH Gate	WIDTH Top	Depth Over Sill
Ashtabula, O.	Great Lakes Engineering Works, graving dock	636	664	78	102	16
Bay City, Mich.	James Davidson	415	435	60	100	14½
Bay City, Mich.	James Davidson	290	315	42½	70	13
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 1	454	478	58	81	16
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 2	615	621	72	96	16
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 3	372	379	45	65½	12½
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 4	650	...	..	..	..
Chicago, Ill.	Shipowners' Dry Dock Co., No. 1	480	500	60	84	16
Chicago, Ill.	Shipowners' Dry Dock Co., No. 2	300	320	50	80	14
Chicago, Ill.	Shipowners' Dry Dock Co., No. 3	160	180	40	70	10
Chicago, Ill.	Chicago Shipbuilding Co. (Calumet)	556	564	70	100	16
Cleveland, O.	American Shipbuilding Co., Dock No. 1	536	547	58	88	13¾
Cleveland, O.	American Shipbuilding Co., Dock No. 2	442	455	48	55	16
Cleveland, O.	American Shipbuilding Co., Dock No. 3	340	360	48	55	17½
Collingwood, Ont.	Collingwood Shipbuilding Co., Ltd.	514	520	55	60	16½
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 1.	232	232	48	48	8
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 2.	341	368	77	91	16
Detroit, Mich.	Great Lakes Engineering Works	600	600	..	95	18
Detroit, Mich.	Walter H. Oades Marine Ry.	141	...	..	..	5 fo'd 12 aft
Detroit, Mich.	Walter H. Oades Marine Ry.	186	...	..	..	11 feet
Duluth, Minn.	Duluth Dry Dock Co., floating dock	...	...	..	..	16
Duluth, Minn.	N. Grignon, floating dock	60	...	60	60	13
Grand Haven, Mich.	Mechanics Dry Dock, sectional dock	...	...	..	..	9
Grand Haven, Mich.	T. W. Kirby, floating dock	140	...	42	..	8
Houghton, Mich.	Joseph Croze	75	100	26	26	10
Kingston, Ont.	Davis Dry Dock Co.	180	180	31	40	9
Kingston, Ont.	Kingston Dry Dock Co.	280	300	55	79	14.6 low 16 high
Lorain, O.	American Shipbuilding Co.	550	605	66	94	15
Lorain, O.	American Shipbuilding Co.	724	750	80	125	15
Manitowoc, Wis.	Manitowoc Shipbuilding & Dry Dock Co., graving dock	340	350	45	68	13
Manitowoc, Wis.	Manitowoc Shipbuilding & Dry Dock Co.	360	360		70	15

Milwaukee, Wis.	Milwaukee Dry Dock Co., South Dock	444	455	60½	85	13½
Milwaukee, Wis.	Milwaukee Dry Dock Co., West Dock	312	320	45	75	12
Milwaukee, Wis.	Milwaukee Dry Dock Co., also has one floating dry dock 73 ft. long					
Montreal, Que.	A. Cantlin, Canada Marine Works	216	216	46	90	11
Montreal, Que.	A. Cantlin, Canada Marine Works	200	200	46	90	11
Ogdensburg, N. Y.	St. Lawrence Marine Ry. Co.	300	300	24	52	16
	J. H. & T. C. Goble, Ontario Dry Dock	150	165	36	50	11
Oswego, N. Y.	Owen Sound Dry Dock & Ship Building Co., Ltd.	275	300	48½	63½	9
Owen Sound, Ont.	British N. American Bent Chair Factory	...	300	..	..	10
Owen Sound, Ont.	Western Dry Dock and Ship Building Co., Ltd.	255	300	46	120	11
Picton, Ont.	Canada Transp. Lines (formerly owned by A. W. Hepburn)	...	...	..	..	..
Port Arthur, Ont.	Muir Brothers (3 sections)	390	412	..	62	13½
Port Dalhousie, Ont.	Port Huron Ship Building Co.	412	...	62	..	18
Port Huron, Mich.	Reid Wrecking Co., graving dock	234	236	41	..	12
Port Huron, Mich.	Manitowoc Dry Dock Co., floating dock	178	180	38	..	12
Quebec, Que.	G. T. Davie & Sons, No. 1	120	120	35	40	10 over
Quebec, Que.	G. T. Davie & Sons, No. 2	...	322	..	..	..
Quebec, Que.	Ross & Co.	223	...	41½	..	..
Quebec, Que.	A. Russell	150	...	..	..	10
Saginaw, Mich., E. S.	Carkin, Stickney & Cram, marine railway	130	130	29	29	9
Sandusky, O.	The Lake Erie Dry Dock & Mill Co.	160	...	..	..	8½
Sault Ste. Marie, Mich.	Hickler Bros. Marine Ry., 1,000 tons capacity					13½ aft
Sturgeon Bay, Wis.	Rieboldt, Wolter & Co., four sets of floating dry docks, 70, 100, 150 and 215 ft., length on blocks, respectively	...	...	..	52	13
Superior, Wis.	Superior Ship Building Co., Dock No. 1	475	514	51½	92	15
Superior, Wis.	Superior Ship Building Co., Dock No. 2	547	620	66½	105	18
Toledo, O.	A. Gilmore's Sons	230	235	37	55	9½
Toledo, O.	Toledo Marine Ry. (James Scanes, Mgr.)	102	102	32	32	10½
Toledo, O.	The Toledo Ship Building Co., No. 1	480	500	52 58	90	14
Toledo, O.	The Toledo Ship Building Co., No. 2	550	570	70½ 77½	103	14
Toronto, Ont.	Peter Arnot	125	200	32	32	10.6
Wyandotte, Mich.	Davis Boat & Car Co., marine railway	140	...	..	..	12

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(From Capt. T. A. Ellery, Marysville, Mich.)

Size	Number of yarns in rope	Weight of 100 fathoms in lbs	Breaking Strain in Tons		Mean, tons
			Maximum	Minimum	
12	1173	2940	45.5	35.	40.2
11½	1077	....	41.7	32.	36.8
11	987	....	38.2	29.3	33.7
10½	900	....	34 9	26.7	30.8
10	816	2136	31.7	24.2	27.9
9½	738	....	28.6	21.8	25.2
9	660	1712	25.7	19.6	22.6
8½	591	....	23.	17.5	20.2
8	522	1379	20.4	15.5	18.
7½	459	....	18.	13.6	15.8
7	399	....	15.8	11.8	13.8
6½	345	....	13.7	10.2	12.
6	294	834	11.75	8.7	10.3
5½	249	712	9.8	7.3	8.7
5	204	....	8.2	6.1	7.2
4½	168	413	6.7	5.	5.9
4	132	....	5.3	4.	4.7
3½	102	....	4.1	3.2	3.7
3	75	203	3.1	2.4	2.8
2½	54	....	2.2	1.8	2.1
2	33	....	1.5	1.3	1.4
1¾	27	....	1.28	1.13	1.23
1½	21	....	.90	.86	.88
1¼	15	....	.60	.53	.56
1	12	....	.58	.46	.51
¾	9	....	.51	.42	.46
½	6	....	.28	.28	.28

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(From Capt. T. A. Ellery, Marysville, Mich.)

Size	Required Testing Strain in Tons	Weight of 100 fathoms in Pounds	Breaking Strain in Tons		Mean Strain Tons
			Maximum	Minimum	
2¼	91⅛	27216	130.3	121.8	125.9
2⅛	81¼	24276	116.2	108.6	112.3
2	72	21504	103.0	96.3	99.5
1⅞	63¼	18900	99.0	88.0	92.8
1¾	55⅛	16464	85.3	65.0	74.1
1⅝	47½	14196	75.0	59.5	66.5
1½	40½	12096	65.5	54.5	59.5
1⅜	34	10164	53.6	44.4	48.5
1¼	28½	8400	42.8	35.3	38.5
1⅛	22¾	6804	33.0	27.0	29.5
1	18	5376	27.3	22.0	24.3
⅞	13¾	4116	22.5	20.3	21.1
¾	10⅛	3024	15 0	12.5	13.5
11-16	8½	2541	12.3	10.8	11.4
⅝	7	2100	9.9	9.4	9.5
9-16	5½	1701	....	....	....
½	4½	1344	6.3	5.9	6.0

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1	$0 40	$0 37⅓	$0 46⅔	$0 70
1¼	50	46⅔	58⅓	87½
1½	60	56	70	1 05
1¾	70	65⅓	81⅔	1 22½
2	80	74⅔	93⅓	1 40
2¼	90	84	1 05	1 57½
2½	1 00	93⅓	1 16⅔	1 75
2¾	1 10	1 02⅔	1 28⅓	1 92½
3	1 20	1 12	1 40	2 10
3¼	1 30	1 21⅓	1 51⅔	2 27½
3½	1 40	1 30⅔	1 63⅓	2 45
3¾	1 50	1 40	1 75	2 62½
4	1 60	1 49⅓	1 86⅔	2 80
4¼	1 70	1 58⅔	1 98⅓	2 97½
4½	1 80	1 68	2 10	3 15
4¾	1 90	1 77⅓	2 21⅔	3 32½
5	2 00	1 86⅔	2 33⅓	3 50
5¼	2 10	1 96	2 45	3 67½
5½	2 20	2 05⅓	2 56⅔	3 85
5¾	2 30	2 14⅔	2 68⅓	4 02½
6	2 40	2 24	2 80	4 20
Number of bushels per gross ton.	40	37⅓	46⅔	70
Number of gross tons in 100 bushels.	25	26 11-14	21 3-7	14 2-7

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VESSEL TIME CARD AND DISTANCE TABLE OF LAKE PORTS

BETWEEN LAKE ERIE PORTS AND DETROIT

Speed per hour. (Time is in hours and minutes.)

DETROIT TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Buffalo	256	26.34	32	28.27	25.36	23.16	21.20	19.41	18.17	17.4	16
Erie	187	26.42	23.22	20.46	18.42	17	15.35	14.23	13.21	12.28	11.41
Conneaut	160	22.51	20	17.46	16	14.32	13.20	12.18	11.25	10.40	10
Ashtabula	146	20.50	18.15	16.14	14.36	13.16	12.10	11.13	10.25	9.44	9.7
Fairport	121	17.17	15.7	13.26	12.6	11	10.5	9.18	8.38	8.4	7.33
Cleveland	105	15	13.7	11.40	10.30	9.32	8.45	8.4	7.30	7	6.33
Lorain	88	12.34	11	9.46	8.48	8	7.20	6.46	6.17	5.52	5.30
Huron	78	11.8	9.45	8.40	7.48	7.5	6.30	6	5.34	5.12	4.52
Sandusky	69	9.51	8.37	7.40	6.54	6.16	5.45	5.18	4.55	4.36	4.18
Toledo	56	8	7	6.13	5.36	5.5	4.40	4.18	4	3.44	3.30

BETWEEN DETROIT AND SAULT STE. MARIE AND MACKINAW

Speed per hour. (Time is in hours and minutes.)

DETROIT TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Sault Ste. Marie	346	49.25	43.15	38.26	34.36	31.27	28.50	26.37	24.43	23.4	21.37
Mackinaw	311	44.25	38.53	34.33	31.6	28.16	25.55	23.55	22.13	20.44	19.26

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BETWEEN MACKINAW AND LAKE MICHIGAN PORTS

Speed per hour. (Time is in hours and minutes.)

MACKINAW TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Escanaba	128	18.17	16	14.13	12.48	11.38	10.40	9.50	9.8	8.32	8
Green Bay	198	28.17	24.45	22	19.48	18	16.30	15.13	14.8	13.12	12.22
Manitowoc	194	27.42	24.15	21.33	19.24	17.38	16.10	14.55	13.51	12.56	12.7
Sheboygan	214	30.34	26.45	23.46	21.24	19.27	17.50	16.27	15.17	14.16	13.22
Milwaukee	258	36.51	32.15	28.40	25.48	23.27	21.30	19.50	18.25	17.12	16.7
Racine	270	38.34	33.45	30	27	24.32	22.30	20.46	19.17	18	16.52
Chicago	323	46.8	40.22	35.53	32.18	29.21	26.55	24.50	23.4	21.32	20.11
South Chicago	338	48.17	42.15	37.33	33.48	30.43	28.10	26	24.8	22.32	21.7

BETWEEN SAULT STE. MARIE AND LAKE SUPERIOR PORTS

Speed per hour. (Time is in hours and minutes.)

SAULT STE. MARIE TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Marquette	158	22.34	19.45	17.33	15.48	14.21	13.10	12.9	11.17	10.32	9.52
Ashland—Bayfield—Washburn	347	49.34	43.22	38.33	34.42	31.32	28.55	26.41	24.47	23.8	21.41
Ft. William—Port Arthur	272	38.51	34	30.14	27.12	24.43	22.40	20.55	19.25	18.8	17
Two Harbors	371	53	46.22	41.13	37.6	33.43	30.55	28.32	26.30	24.44	23.11
Duluth	394	56.17	49.15	43.46	39.24	35.49	32.50	30.18	28.8	26.16	24.37

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PILOT'S READY RECKONER

The Pilot's Ready Reckoner, published herewith, is copyrighted by Capt. M. G. Allen, who gave the Ship Masters' Directory permission to reproduce it.

The following table was calculated to aid pilots in ascertaining the distance a vessel on a certain course will pass an object when abeam by bearings from the course of ¼ to 7¾ points. It is calculated up to twenty miles.

It is also available to ascertain the leeway or current action to which the vessel is subject.

It will be noticed by the pilot that exactness depends upon his knowing the speed of his vessel and the time she is due abreast the object or his judgment as to the distance the vessel must run to bring the object abeam.

For example, suppose the vessel is a twelve mile boat and due abreast the object in an hour and twenty-five minutes (seventeen miles to run) and that the object bears two and a quarter points on the bow. Enter the table where the heading says "Difference between course and bearing 2¼ points" then follow down column to seventeen, opposite which is the figure 8, denoting the miles the vessel will be off the object when abeam.

To prove your calculation is correct and that your course is making good—that your vessel is not subject to the action of some unseen force such as current, or that your calculation as to leeway is correct, the bearing should be three points on the bow at twelve miles to run and four points on the bow at eight miles to run.

As another illustration, suppose the object bears 1¼ points on the bow at 16 miles to run the ship should clear by four miles, and to find if the vessel is making good the calculation and not drifting for any reason the bearing should be nearly 2 points on the bow at 10 miles to run and 3 points on the bow at 6 miles to run, 3½ points on the bow at 5 miles to run and 4 points on the bow at 4 miles to run.

A bearing can be taken at every mile if necessary to ascertain how much influence wind or current has upon the vessel.

To Ascertain Leeway

Take a bearing of some known object and as an illustration say it is one point on the bow with fifteen miles to run to bring the vessel abreast this object. This course barring leeway would bring the vessel three miles off. Upon taking your second bearing you find the object bears one and three-quarters points on the bow at ten miles to run, showing three and a half miles off. The vessel has drifted one-half mile in going five, which according to the table would be one-half point leeway. Taking a third bearing at five miles to run the object should bear three and a half points on the bow, showing four miles off. This course uncorrected would bring the vessel four and a half miles off.

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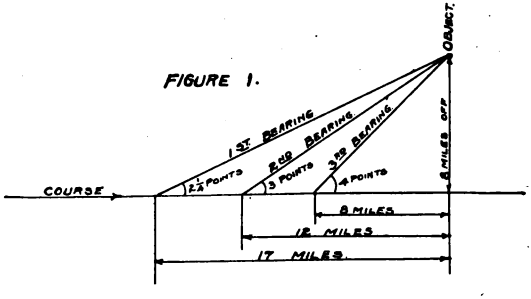
FIGURE 1.
OBJECT.
1ST BEARING
2ND BEARING
3RD BEARING
8 MILES OFF
COURSE
1 1/4 POINTS
3 POINTS
4 POINTS
8 MILES
12 MILES
17 MILES

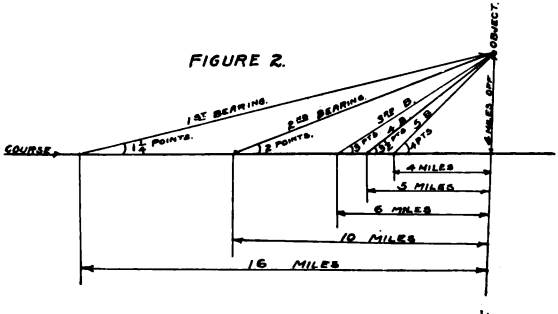
FIGURE 2.
OBJECT.
1ST BEARING.
2ND BEARING
3RD B.
4TH B.
5TH B.
4 MILES OFF
COURSE
1 1/4 POINTS.
2 POINTS.
4 MILES
5 MILES
6 MILES
10 MILES
16 MILES

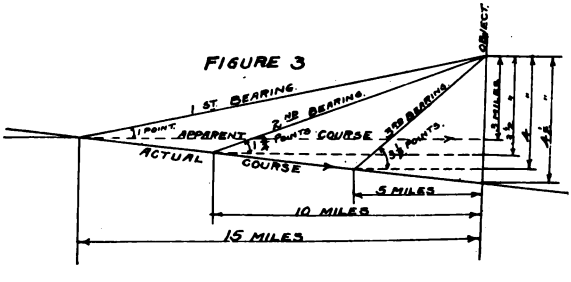
FIGURE 3
OBJECT.
1ST BEARING.
2ND BEARING.
3RD BEARING
1 POINT
APPARENT COURSE
ACTUAL
COURSE
5 MILES
10 MILES
15 MILES

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Diff. Between Course & Bear. ¼ Point		Diff. Between Course & Bear. ½ Point		Diff. Between Course & Bear. ¾ Point		Diff. Between Course & Bear. 1 Point	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.05	1	.10	1	.15	1	.20
2	.10	2	.20	2	.30	2	.40
3	.15	3	.30	3	.45	3	.60
4	.20	4	.40	4	.60	4	.80
5	.25	5	.50	5	.75	5	1.00
6	.30	6	.60	6	.90	6	1.20
7	.35	7	.70	7	1.05	7	1.40
8	.40	8	.80	8	1.20	8	1.60
9	.45	9	.90	9	1.35	9	1.80
10	.50	10	1.00	10	1.50	10	2.00
11	.55	11	1.10	11	1.65	11	2.20
12	.60	12	1.20	12	1.80	12	2.40
13	.65	13	1.30	13	1.95	13	2.60
14	.70	14	1.40	14	2.10	14	2.80
15	.75	15	1.50	15	2.25	15	3.00
16	.80	16	1.60	16	2.40	16	3.20
17	.85	17	1.70	17	2.55	17	3.40
18	.90	18	1.80	18	2.70	18	3.60
19	.95	19	1.90	19	2.85	19	3.80
20	1.00	20	2.00	20	3.00	20	4.00

Diff. Between Course & Bear. 1¼ Points		Diff. Between Course & Bear. 1½ Points		Diff. Between Course & Bear. 1¾ Points		Diff. Between Course & Bear. 2 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.25	1	.30	1	.35	1	.41
2	.50	2	.60	2	.71	2	.82
3	.75	3	.91	3	1.06	3	1.23
4	1.00	4	1.21	4	1.42	4	1.65
5	1.25	5	1.51	5	1.78	5	2.06
6	1.50	6	1.82	6	2.13	6	2.47
7	1.76	7	2.12	7	2.49	7	2.88
8	2.01	8	2.42	8	2.84	8	3.30
9	2.26	9	2.73	9	3.20	9	3.71
10	2.51	10	3.03	10	3.56	10	4.12
11	2.76	11	3.33	11	3.91	11	4.53
12	3.01	12	3.64	12	4.27	12	4.95
13	3.26	13	3.94	13	4.62	13	5.36
14	3.52	14	4.24	14	4.98	14	5.77
15	3.77	15	4.55	15	5.34	15	6.18
16	4.02	16	4.85	16	5.69	16	6.60
17	4.27	17	5.15	17	6.05	17	7.01
18	4.52	18	5.45	18	6.40	18	7.42
19	4.77	19	5.75	19	6.76	19	7.83
20	5.03	20	6.06	20	7.12	20	8.25

Diff. Between Course & Bear. 2¼ Points		Diff. Between Course & Bear. 2½ Points		Diff. Between Course & Bear. 2¾ Points		Diff. Between Course & Bear. 3 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.5	1	.5	1	.6	1	.7
2	.9	2	1.1	2	1.2	2	1.3
3	1.4	3	1.6	3	1.8	3	2.0
4	1.9	4	2.1	4	2.4	4	2.6
5	2.3	5	2.6	5	3.0	5	3.3
6	2.8	6	3.2	6	3.6	6	4.0
7	3.3	7	3.7	7	4.1	7	4.6
8	3.8	8	4.2	8	4.7	8	5.3
9	4.2	9	4.7	9	5.3	9	6.0
10	4.7	10	5.3	10	5.9	10	6.6
11	5.2	11	5.8	11	6.5	11	7.3
12	5.7	12	6.3	12	7.1	12	8.0
13	6.1	13	6.8	13	7.7	13	8.6
14	6.6	14	7.4	14	8.3	14	9.3
15	7.1	15	7.9	15	8.9	15	10.0
16	7.5	16	8.5	16	9.5	16	10.6
17	8.0	17	9.0	17	10.1	17	11.3
18	8.5	18	9.5	18	10.7	18	12.0
19	9.0	19	10.1	19	11.3	19	12.6
20	9.4	20	10.6	20	11.9	20	13.3

Diff. Between Course & Bear. 3¼ Points		Diff. Between Course & Bear. 3½ Points		Diff. Between Course & Bear. 3¾ Points		Diff. Between Course & Bear. 4 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.7	1	.8	1	.9	1	1.
2	1.4	2	1.6	2	1.8	2	2.
3	2.2	3	2.4	3	2.7	3	3.
4	2.9	4	3.2	4	3.6	4	4.
5	3.7	5	4.0	5	4.5	5	5.
6	4.4	6	4.8	6	5.4	6	6.
7	5.2	7	5.6	7	6.3	7	7.
8	5.9	8	6.4	8	7.2	8	8.
9	6.6	9	7.3	9	8.1	9	9.
10	7.4	10	8.1	10	9 0	10	10.
11	8.1	11	8.9	11	9.9	11	11.
12	8.9	12	9.7	12	10.8	12	12.
13	9.6	13	10.5	13	11.7	13	13.
14	10.4	14	11.3	14	12.7	14	14.
15	11.1	15	12.2	15	13.6	15	15.
16	11.9	16	13.0	16	14.5	16	16.
17	12.6	17	13.8	17	15.4	17	17.
18	13.4	18	14.6	18	16 3	18	18.
19	14.1	19	15.4	19	17.2	19	19.
20	14.9	20	16.3	20	18.1	20	20.

Diff. Between Course & Bear		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff Between Course & Bear.	
4¼ Points		4½ Points		4¾ Points		5 Points	
Dist. to Run	Dist. Off	Dist to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	1.1	1	1.2	1	1.4	1	1.6
2	2.2	2	2.5	2	2.7	2	3.0
3	3.3	3	3.7	3	4.1	3	4.6
4	4.4	4	4.9	4	5.4	4	6.0
5	5.5	5	6.1	5	6.8	5	7.6
6	6.6	6	7.4	6	8.1	6	9.0
7	7.8	7	8.6	7	9.4	7	10.6
8	8.9	8	9.9	8	10 8	8	12.0
9	10.0	9	11.1	9	12.2	9	13.6
10	11.1	10	12.3	10	13 6	10	15.0
11	12 2	11	13.5	11	14.9	11	16.6
12	13.3	12	14.8	12	16.3	12	18.0
13	14.4	13	16.0	13	17.6	13	19.6
14	15.5	14	17.2	14	19.0	14	
15	16.6	15	18.5	15		15	
16	17.7	16	19.7	16		16	
17	18.8	17		17		17	
18	19.9	18		18		18	
19		19		19		19	
20		20		20		20	

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff Between Course & Bear.	
5¼ Points		5½ Points		5¾ Points		6 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	1.7	1	1.9	1	2.2	1	2.5
2	3.4	2	3.8	2	4.3	2	4.9
3	5.1	3	5.7	3	6.4	3	7.3
4	6.7	4	7.6	4	8.6	4	9.7
5	8.4	5	9.5	5	10.7	5	12.1
6	10.1	6	11.3	6	12.8	6	14.5
7	11.7	7	13.2	7	14.9	7	16.9
8	13.5	8	15.1	8	17.0	8	19.3
9	15.2	9	16.9	9	19.1	9	
10	16.8	10	18.8	10		10	
11	18.5	11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	
15		15		15		15	
16		16		16		16	
17		17		17		17	
18		18		18		18	
19		19		19		19	
20		20		20		20	

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff Between Course & Bear.	
6¼ Points		6½ Points		6¾ Points		7 Points	
Dist to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	2.8	1	3.3	1	4.	1	5.
2	5.6	2	6.6	2	8.	2	10.
3	8.4	3	9 9	3	12.	3	15.
4	11.2	4	13.2	4	15.9	4	20.
5	14.0	5	16.5	5	19.8	5	
6	16.8	6	19.7	6		6	
7	19.6	7					

Diff. Between Course & Bear		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff Between Course & Bear.	
7¼ Points		7½ Points		7¾ Points			
Dist to Run	Dist. Off	Dist to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	6.75	1	10.	1	20.		
2	13.50	2	20.				
3	20.00						

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It will be necessary for boats desiring to receive or deliver United States mail to enter the American channel, but only at the point of delivery.

The station will be located at the foot of First street, and deliveries will be made as nearly opposite that point as possible by a launch and small boats, the service being a continuous one day and night.

When telegrams from passing vessels are handed to the marine letter carrier, the amount of money accompanying same, in addition to the cost of the message, should be sufficient to attach a 2-cent postage stamp to same.

The delivery of telegrams may be had by instructing the telegraph company to attach a 2-cent stamp to the telegram, and, for immediate delivery, the addition of a special delivery stamp.

Mail for delivery from the marine postoffice should be directed to the "Marine Postoffice, Detroit, Mich.," and deliveries will be made throughout the entire period of navigation.

The signal to passing boats from the United States mail boat for delivery of mail will be one long whistle, one short whistle, one long whistle.

Signal for steam vessels wanting the mail boat to call for mail: One long whistle, one short whistle, one long whistle.

Signal for sailing vessels requiring mail boat: White flag by day, flashing bright light at night.

Signal from mail boat to large boats to check down: Three blasts of mocking bird whistle.

Signal from row boat belonging to mail boat when approaching vessels for delivery of mail: White flag in day time, swinging bright light at night.

IMPORTANT: Letters and packages will be received from passing boats by the marine carriers for registration and a receipt issued to the senders at the time, but registered letters and parcels can not be delivered to passing boats, as the necessary identification and receipts can not be had. The addressees of such letters and parcels

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are, however, duly notified by mail of their receipt, and that they will be held at the postoffice the usual time, subject to their order to forward or to deliver to some person ashore.

Money orders can also be procured through the marine carriers by following the instructions issued by the postmaster; if not provided with a copy of same, apply to the carrier.

RULES AND REGULATIONS

For Navigating Lower Detroit River

Approved by the Secretary of War, October 17, 1912

Definitions. The Lower Detroit River is that portion of the Detroit River between the Mamajuda range lights and Lake Erie.

Speed under these rules shall in all cases be speed over the bottom.

These rules shall replace all rules and regulations heretofore published for navigating the Lower Detroit River.

Rule 1. No vessel of 100 gross tons or over shall navigate the Livingstone Channel at a rate of speed greater than ten statute miles per hour between its junction with the Amherstburg Channel at Ballards Reef and the Bar Point light vessel; nor the Amherstburg Channel at a rate of speed greater than twelve statute miles per hour between the south end of Bois Blanc Island and the north gas buoys at Ballards Reef, and where the width of this channel is restricted by improvements in progress, through such restricted width of channel the speed shall not exceed eight statute miles per hour.

Rule 2. Downbound freight vessels shall pass through the Livingstone Channel and enter Lake Erie via the channel west of Detroit River lighthouse. All upbound vessels shall enter Detroit River via the channel east of Detroit River lighthouse, and pass through the Amherstburg Channel.

Vessels under 100 gross tons, and vessels making local stops along these routes, are exempt from this rule.

Rule 3. Passenger vessels may use the Amherstburg Channel downbound, but should they pass down through the Livingstone Channel they shall be subject to the rules governing that channel.

Rule 4. All upbound light-draft vessels and all passenger vessels using the Amherstburg Channel shall pass through the auxiliary chan-

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nel to the eastward of the improved channel at Ballards Reef. This auxiliary channel is 280 ft. wide and 14.5 ft. deep at low-water datum. The depth of water in this channel is posted in the cupola of building occupied by Duff and Gatfield, marine reporters, at Texas Dock.

Rule 5. No vessel shall pass, or approach within one-quarter mile of another vessel bound in the same direction in that portion of Livingstone Channel between its junction with the Amherstburg Channel at Ballards Reef and Bar Point light vessel; nor at any other portion of either channel where the width of channel is restricted by improvements in progress.

Tugs without tows and vessels under 100 gross tons are exempt from this rule.

Rule 6. Any vessel approaching a tug with a tow moving in the same direction may pass such tow by giving a signal indicating upon which side the vessel desires to pass, and it shall be the duty of the pilot of the tug to sheer clear of the side of the channel indicated and give the passing vessel all possible room.

Rule 7. No vessel shall anchor within the limits of either channel except in distress or under stress of weather. Any vessel so anchored shall be moved as quickly as possible to such anchorage as will leave the channel clear for the passage of vessels.

Rule 8. No vessel shall tow another through any of the improved channels unless such vessel moves the tow at least five miles per hour over the bottom; and no vessel of ten gross tons or over shall navigate the improved channels under sail power alone.

Rule 9. All vessels passing dredges, drill scows, derrick scows, or other stationary plant engaged on improvements to the channels are required to slacken their speed when given a signal by three distinct blasts of the steam whistle.

Rule 10. No vessel shall pass or attempt to pass another vessel or vessels moving in the same or opposite directions at any place in Lower Detroit River, in such a position that more than two vessels will be abreast when passing.

Rule 11. Three long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high a rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 12. Four long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

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Rule 13. One long blast followed by four short blasts, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given may proceed on her course.

Rule 14. A vessel aground in or near a channel, or a vessel which from any accident is not under command, shall show from sunset to sunrise, at a height of not less than twenty feet nor more than forty feet above the hull, two lights in a vertical line one above the other and not less than six feet apart, and so fixed as to be visible to both up and downbound vessels. The upper of these lights shall be red. If the nature of the accident is such that the channel is closed, the lower of these lights shall also be red. But if the nature of the accident is such that vessels can pass in safety, the lower of these lights shall be white.

Such vessel shall not show the lights required for a vessel at anchor.

Such vessel shall, if the accident has closed the channel, sound a signal of several short and rapid blasts of the steam whistle to any approaching vessel, whereupon the approaching vessel shall stop and repeat this signal to any vessel coming up astern of her.

But if the accident has not rendered passing unsafe, such vessel shall sound a signal of three distinct blasts to any approaching vessel, whereupon the approaching vessel shall answer with the same signal of three distinct blasts and shall reduce her speed and pass with caution.

Such vessel shall in no case give or answer a passing signal without first giving several short and rapid blasts of the steam whistle.

It shall be the duty of the Master of the first vessel passing such vessel to report the place and nature of the accident to the next marine reporting station or patrol boat.

RULES AND REGULATIONS FOR NAVIGATING THE SAINT CLAIR RIVER, MICH., IN THE VICINITY OF STAG ISLAND

The United States Government having improved the channel to the westward of Stag Island by the removal of shoals, the following regulation is promulgated by the Secretary of War in pursuance of the provisions of Section 4 of the river and harbor act of August 18, 1894, as amended by Section 11 of the river and harbor act of June 13, 1902.

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All through-bound vessels in passing through the river at this point shall keep to the right, that is to say, all up-bound boats shall pass through the eastern channel and all down-bound boats through the western channel.

This rule shall only apply to through-bound vessels and not to vessels running between local points on the river, which vessels may take either channel, conforming to the ordinary rules of the road at sea.

ROBERT SHAW OLIVER,
Assistant Secretary of War.

War Department, January 8, 1907.

The following regulation governing the speed of vessels navigating the St. Clair river in front of Sarnia has been approved by both the United States and Dominion Governments:

The speed of vessels navigating the waters of St. Clair river in front of the city of Sarnia shall not exceed nine miles per hour.

The city limits of Sarnia extend from just below the international tunnel to about opposite Bay Point.

War Department, Sept. 16, 1909.

The Canadian Government have concurred in the foregoing regulations for the navigation of the St. Clair River.

Penalties for Violations

Every person and every corporation which shall violate such rules and regulations shall be deemed guilty of a misdemeanor and, on conviction thereof in any district court of the United States within whose territorial jurisdicion such offense may have been committed, shall be punished by a fine not exceeding five hundred dollars, or by imprisonment (in case of a natural person) not exceeding six months, in the discretion of the court.

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REGULATIONS FOR CHICAGO HARBOR

Ordinance passed Dec. 13th, 1909, amending Section 1016 of the Revised Municipal Code of Chicago of 1905, as follows:

Section 1016. Steam Tugs for Vessels—Penalty. All vessels, craft or floats not propelled by steam, navigating the harbor for which the opening of any bridge may be necessary, shall, while approaching and passing such bridge be towed by a steam tug. Any steam boat, vessel, craft or float propelled by steam of twelve hundred (1,200) tons gross burden or more, while navigating the portion of the Chicago River bounded by the Rush street bridge on the east, the Twelfth street bridge on the south and the Chicago avenue bridge on the north, all inclusive, shall have the assistance of a tug or tugs. It shall be unlawful for any steam boat, vessel, craft or float of twelve hundred (1,200) tons gross burden or more to back through any bridge draw in the Chicago River or the Calumet River within the limits of the City of Chicago without the assistance of a tug or tugs Page 2139 Council Proceedings.

The mayor of Chicago has suspended this ordinance pending court decision on litigation so that it is not obligatory on a vessel master to take a tug on the Chicago river unless he thinks it necessary to do so.

RULES FOR THE SAINT MARY'S RIVER

Rule 1. These rules shall apply to the waters of Saint Mary's River from Point Iroquois on Lake Superior to Point Detour on Lake Huron, except those waters included in the Saint Mary's Falls Canals.

Speed under these rules shall in all cases be speed over the bottom.

Rule 2. No vessel of 500 gross tons or over shall navigate the Saint Mary's River at a rate of speed greater than ten statute miles per hour between Everen's Point and the float lights in Hay Lake marking the northern end of the Middle Neebish Channel, nor between the post lights in Hay Lake and in Mud Lake marking the upper and lower ends, respectively, of the West Neebish Channel, nor be-

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tween Six Mile Point Rear Light and the intersection of Cedar Point and Birch Point Ranges.

Rule 3. No vessel of 500 gross tons or over shall pass up the West Neebish Channel nor down the Middle Neebish Channel except vessels making a regular local stop on these channels and vessels bound in or out of the Saint Joseph or Lake George Channels at Harwood Point.

Rule 4. No vessel shall pass, or approach within one-quarter mile of, a vessel bound in the same direction in any of those portions of the channels where speed is restricted to ten statute miles per hour except between Bayfield Rock and the Saint Mary's Falls Canals, and, for upbound vessels only, between Vidal Shoal and Black Gas Buoy No. 3, off Brush Point.

Tugs without tows and local passenger boats under 500 gross tons are exempt from this rule.

Rule 5. Any vessel approaching a tug towing a dredge or scow moving in the same direction may pass such tow by giving a signal indicating upon which side the vessel desires to pass, and it shall be the duty of the pilot of the tug to sheer clear of the side of the channel indicated and give the vessel all possible room.

Rule 6. No vessel or raft shall anchor in any of the improved channels nor off Big Point within one-quarter mile of the waterworks intake crib, except vessels in distress or under stress of weather.

Any vessel or raft so anchored shall at once shift anchorage as directed by the Supervisor of Anchorages.

Rule 7. Vessels towing, while engaged in shortening or lengthening tow lines, or dropping or making up tows; vessels mooring or unmooring, anchoring or hoisting anchor; vessels loading or discharging stores from boats alongside; and vessels awaiting supply boats are required to haul, clear of the range when possible and to permit the unobstructed passage of other vessels.

Rule 8. No vessel is allowed to tow more than one vessel through any of the improved channels unless the vessel moves the tow at least five miles per hour over the bottom; and no vessel of ten gross or over shall navigate the improved channels under sail power alone.

Rule 9. Every upbound vessel shall, when abreast of Everen's Point, sound a ten-second blast of the steam whistle, which shall be answered by any descending vessel between Dark Hole Gas Buoy and Johnston Point.

Every vessel bound down the Middle Neebish Channel shall, when abreast of Dark Hole Gas Buoy, sound a ten-second blast of the steam

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whistle, which shall be answered by a like blast from any upbound vessel between Everen's Point and Johnston's Point.

Immediately after such exchange of signals the passing signals shall be exchanged.

Masters are cautioned not to sound the ten-second blast required by this rule before reaching the points named.

Rule 10. All vessels passing dredges and other vessels engaged on improvements to the channels are required to slacken their speed upon such dredge or vessel giving the signal of three distinct blasts of the steam whistle.

Rule 11. No vessel shall pass or attempt to pass another vessel or vessels moving in the same direction in such a position that more than two vessels will be abreast when passing.

Rule 12. Rafts are required to use the Old or Lake George Channel. When lying by they shall be moored clear of the channel. From Harwood Point to Mud Lake Crib Gas Buoy they will move only when and as directed by the Supervisor of Anchorages.

Rafts originating in Hay Lake shall be moved only at such times and under such conditions as the Supervisor of Anchorages may direct.

Rule 13. A vessel aground in or near a channel, or a vessel which from any accident is not under command, shall show from sunset to sunrise, at a height of not less than twenty feet nor more than forty feet above the hull, two lights in a vertical line one above the other and not less than six feet apart and so fixed as to be visible to both up and downbound vessels. The upper of these lights shall be red. If the nature of the accident is such that the channel is closed, the lower of these lights shall be red. But if the nature of the accident is such that vessels can pass in safety, the lower of these lights shall be white.

Such vessel shall not show the lights required for a vessel at anchor.

Such vessel shall, if the accident has closed the channel, sound a signal of several short and rapid blasts of the steam whistle to any approaching vessel, whereupon the approaching vessel shall stop and shall repeat this signal to any vessel coming up astern of her.

But if the accident has not rendered passing unsafe, such vessel may sound a signal of three distinct blasts to any approaching vessel, whereupon the approaching vessel shall answer with the same signal of three distinct blasts and shall reduce her speed and pass with caution.

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Such vessel shall in no case give or answer a passing signal without first giving several short and rapid blasts of the steam whistle.

And it shall be the duty of the master of the first vessel passing such vessel to report the place and nature of the accident to the next lookout station, canal office, or patrol boat.

Rule 14. Whenever vessels collect in any part of the river by reason of fog, smoke, ice, or the obstruction of any of the channels, the Supervisor of Anchorages shall direct and control their anchorage and their movements through such channels as the Engineer in charge of the improvements of the Saint Mary's River may declare open and under such restrictions as to order, speed, and towage as the Engineer in charge of the improvements in the Saint Mary's River may deem necessary to facilitate and expedite the passage of commerce. Regular scheduled boats carrying passengers or mails may be advanced in order and any vessel not ready to move when directed will lose her position. All vessels are required to yield prompt and implicit obedience to the directions of the Supervisor of Anchorages.

Rule 15. The patrolling vessels of the United States Revenue-Cutter Service shall have the right of way over all other vessels.

Rule 16. Signals will be used by patrol vessels as follows:

One long blast of the steam whistle followed by one short blast calls attention of nearest patrol boat or lookout station. This signal will also be used by any vessel that wishes to speak to a patrol boat.

Three long blasts of the steam whistle will indicate that the nearest moving vessel is proceeding at too high a rate of speed, and such vessel will at once reduce her speed.

Four long blasts of the steam whistle will indicate that the nearest moving vessel must stop until further orders.

Rule 17. Day and night signals will be displayed from the signal pole at Lookout Station No. 1, Johnson's Point, as follows:

One red light by night or one red ball by day will indicate that the depth of water in the channel is below the normal, and the master of any vessel the draft of which approximates the normal depth will ascertain the depth of water existing in the channel before attempting its passage.

Two red lights by night or two red balls by day will indicate that the channel is closed to upbound vessels, and all such vessels will anchor in the order of their arrival, unless otherwise directed by the patrol boat, on the west side of the ranges from the Mill dock to Everen's Point and on the east side of the sailing lines in

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Mud Lake below Mud Lake Crib Gas Buoy, and will so remain anchored as long as these signals are displayed.

Rule 18. The signal of two red lights by night or two red balls by day may be used by the patrol boats or by lookout stations other than No. 1 to signify that vessels approaching a blockaded channel must anchor where designated and so remain anchored until further instructed by a patrol boat.

Rule 19. A white light hoisted on the flagstaff of any lookout station by night or a white flag or ball hoisted under the ensign by day will signify that the lookout has instructions for passing vessels.

Rule 20. The foregoing rules shall not apply to motor boats as defined under the act of Congress approved June 9, 1910, or to sail vessels under ten gross tons.

Rule 21. In all cases where the foregoing rules are not applicable the attention of masters is directed to the Pilot Rules for the Great Lakes and their Connecting and Tributary Waters.

Complaints arising under these rules should be addressed to the "Supervisor of Anchorages, Sault Sainte Marie, Michigan."

Appeals from the assessments of fines will be accompanied by sworn statements in duplicate. They will be addressed to "The Honorable, The Secretary of Commerce and Labor," and must be forwarded through the collector of customs that assessed the fine.

These rules will take effect April 15th, 1911.

BENJ. S. CABLE,
Acting Secretary.

RULES AND REGULATIONS IN CASE OF OBSTRUCTIONS TO COMMERCE IN ST. MARY'S RIVER, MICHIGAN, PRESCRIBED BY THE SECRETARY OF WAR, JANUARY 9, 1907

Under authority of Section 4 of the River and Harbor act of August 18, 1894, as amended by Section 11 of the River and Harbor act of June 13, 1902, the following rules and regulations in case of obstructions to commerce in the St. Mary's River, Michigan, are hereby prescribed:

Whenever any boat, vessel, raft, or other water craft, shall, by reason of grounding, becoming fast in ice, or any other cause, endanger or obstruct, the free passage of vessels, the Engineer Officer in charge of the improvement of St. Mary's River, Michigan, or his duly accredited representative, is hereby authorized to take imme-

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diate charge with full power to stop all vessels and direct their anchorage; to clear a channel; to designate the order in which all vessels shall proceed after the channel is opened; and to do all other things necessary and proper to facilitate and expedite the passage of commerce.

While in the performance of this duty all orders of the Engineer Officer, or his agent, shall be obeyed, and any violation of such orders will be considered a misdemeanor punishable by a fine not exceeding five hundred dollars, or by imprisonment (in the case of a natural person) not exceeding six months, in the discretion of the court, as provided in the aforesaid law.

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ampment Crib	0.8	5
o Dark Hole turn	1.6	10
Harwood Pt. turn	3.3	20
Junction Buoy No. 35	3.3	20
oat Light No. 14	2.8	17
Six Mile Pt. to Red Nun Buoy	1.5	9
Lower end Island cut	1.5	9
ut to North Entrance	1.5	9
Bayfield Shoal dyke	0.5	3
d to Big Pt.	2.3	14
t.	2.3	14
ection of Birch Pt. and Cedar	5.0	30
BOUND DOWN		
h Pt. and Cedar Pt. ranges to	5.0	30
Pt.	2.3	14
er west end	2.3	14
to North Entrance	0.5	3
lower end Island cut	1.5	9
ut to Red Nun Buoy	1.5	9
lower Crib Light opposite Six	1.5	9
Hay Pt. turn Crib No. 22	1.6	10
No. 22 to Lookout Station 4	4.5	27
to Lower Gas Buoy	2.5	15
Lookout Station 5	2.8	17
Mud Lake Cribs 1-2	1.	11

COMPASS COURSES AND DISTANCES

The following tables of corrected compass courses and distances were prepared by Frank Morrison, compass adjuster of Cleveland.

Corrected Compass Courses

Lake Erie	Course	Miles
Buffalo to Long Point	W by S ¾ S	63¾
Long Point to Dummy	W by S ⅝ S	134
Buffalo to Erie	S W ¾ W	76½
Buffalo to Ashtabula	S W by W ¼ W	117
Buffalo to Fairport	S W by W ½	143
Fairport to Cleveland	S W ½ W	29
Buffalo to Sandusky	S W by W ⅞ W	216
Erie to Dummy	W ¾ S	126
Ashtabula to Dummy	W ¼ S	88
Fairport to Dummy	W ⅜ N	62½
Lorain to Dummy	N W by N	30
Sandusky to Dummy	N E by E ½ E	

Lake Huron	Course	Miles
Fort Gratiot to Sand Beach	N ⅝ W	58½
Sand Beach to Tunder Bay	N by W ½ W	87½
Thunder Bay to Presque Isle	N W by N ¾ N	26½
Presque Isle to Forty-Mile Point	N W by W ⅝ W	47
Thence Sheboygan Light	West	8
Presque Isle to Detour	N W by N ⅛ N	45
Detour to Cheboygan	S W ⅝ W	30
Detour to Bois Blanc	W by S ½ S	26¼
Thence to Straits of Mackinac	West	9¾

chigan	Course	Miles
rth Manitou	S W ⅝ S	65½
int Betsey		30
go	S by W ¼ W	207
ilwaukee north	S W ⅜ W	62
.....	S W by S ⅝ S	177
verty north of	W ½ N	14
.....	S W by W ½ W	58
avers	S W ½ W	27
.....	W ½ S	55
r	N ⅜ E	238
or	N by E ⅛ E	159½

Mackinac	Course	Miles
inac	N W by W ¼ W	19
Vaugoshance	West	18½

perior	Course	Miles
n Point	N W ¾ N	25¼
able Point	W ½ S	56¾
e	W by S ¼ S	60
Island	W ¼ N	145
entrance	W ½ S	20
Copper Harbor ..	W by N ⅝ N	145½
gle Harbor	West	7
.....	W by S	8
il Isle	W by S ½ S	124
.....	S W by W ½ W	68
o Harbors	W by S ½ S	168
Point	S W by W ½ W	5

DISTANCES

	Erie	Ashtabula	Fairport	Cleveland	Milwaukee	Escanaba	Chicago	Marquette	Ashland	Two Harbors	Duluth
Buffalo	80	117	143	173	696	825	892	760	949	973	998
Erie	...	43	73	101	626	756	822	691	880	904	928
Ashtabula	...	...	27	56	585	715	781	650	839	863	887
Fairport	...	...	...	30	563	693	759	628	817	841	865
Cleveland	...	...	...	...	544	674	739	609	798	822	846
Escanaba	...	...	...	...	...	201	275	339	578	602	626
Milwaukee	...	...	...	...	...	...	83	519	708	732	755
Chicago	...	...	...	...	...	...	...	584	773	797	820
Marquette	...	...	...	...	...	...	...	...	...	...	279
Ashland	...	...	...	...	...	...	...	...	...	72	94
Two Harbors	...	...	...	...	...	...	...	...	...	...	27

Distances to Chicago are by south passage; if by middle passage add nine miles; if west passage add 17 miles to the distances to Lake Superior and Lake Erie ports.

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SE OF THE BEARING INDICATOR

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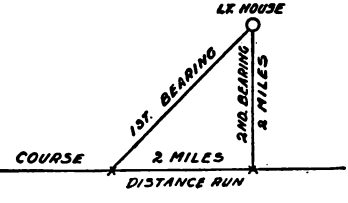
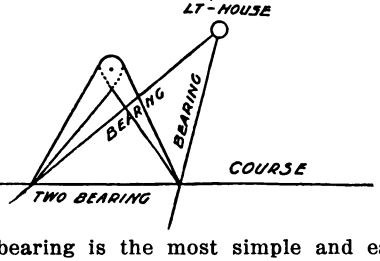
d error of the compass by the north star.
rising and setting sun.
tain the distance off from a lighthouse or other
arings known as the four-point bearing, the cross
bearing method which are thus explained.
the error of the compass by a bearing of the
e dial of the indicator same as the pilot house
t the sight-bar toward the north star and the
the error at once.
the amplitude tables that have been published
the error of the compass may be obtained by
the rising or setting sun.

The Four-Point Bearing

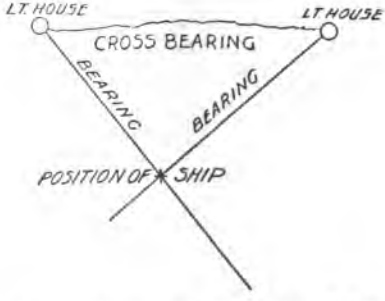




bearing is the most simple and easy bearing to
the exact distance off a lighthouse or other
ut having to use the chart, and is taken thus:
course is N. ½ W., set the sight-bar at N. W. ½

W., or four (4) points of the bow; when the lighthouse or other object comes in range, note the time or log, or both, then run till the lighthouse or other object is abreast or eight (8) points of the bow, and the distance run between bearings will be the exact distance to the lighthouse.

The cross bearing is a very simple, quick and correct bearing when there are two lighthouses in view, and is taken thus: Take a bearing of each lighthouse and draw them on the chart, and where the lines cross is the position of the ship.



The two bearing method is taken thus: Take a bearing of lighthouse and draw the line on the chart, then run any distance, say a mile or two miles, then take another bearing, and draw it on the chart also, then set the dividers to the distance run, according to scale on chart, and draw them down the bearings on the course you have been steering till one point of the dividers rests on each line, and that will be the location of the ship at each bearing.

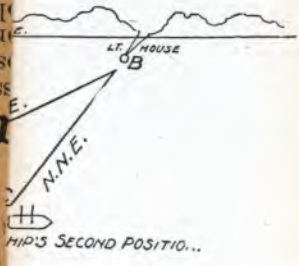
TO FIND A SHIP'S DISTANCE

From a Point of Land or a Light, Without a Table, Chart or Dividers

Submitted by Bro. F. B. Higgie

The problem is of great service when sailing along any coast and is as follows: Suppose any well known shore light bears two or three points on either bow, then let the ship keep on her course till

the left of the first bearing; interval is her distance from d bearing.



E

3 a light bearing three points She proceeds on her course e left of N. E. by E., that is y 6th proposition, first book of

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ble, Rope, Blocks,
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ORS
EN TO
ENTIONS
Public Has
New Ad-
oard.
L PURPOSE
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bmitted to the
Lack of Funds
lamed.
—America invented
iver Ave.

W., or four (4) points of the bow; when the lighthouse or other object comes in range, note the time or log, or both, then run till the lighthouse or other object is abreast or eight (8) points of the bow, and the distance run between bearings will be the exact distance to the lighthouse.

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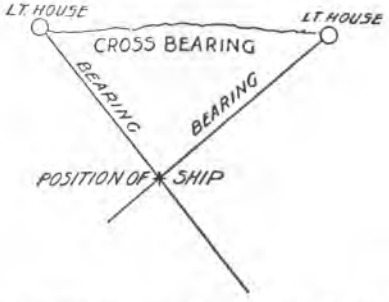

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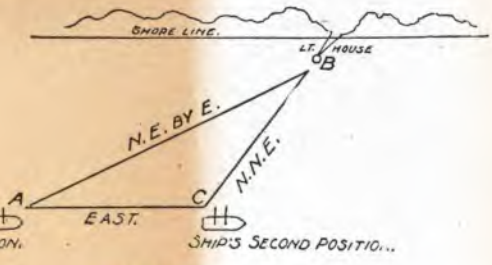
umber of points to the left of the first bearing; ip has run in the interval is her distance from of taking the second bearing.



EXAMPLE

p steering east; B a light bearing three points at is, N. E. by E. She proceeds on her course three points to the left of N. E. by E., that is is equal to C. A. by 6th proposition, first book of

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Difference between the course and the second bearing in points	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	9½	10	10½
4	1.00																	
4½	0.81	1.23																
5	0.69	1.00	1.45															
5½	0.60	0.85	1.17	1.66														
6	0.54	0.74	1.00	1.35	1.85													
6½	0.49	0.67	0.88	1.14	1.50	2.02												
7	0.46	0.61	0.79	1.00	1.27	1.64	2.17											
7½	0.43	0.57	0.72	0.90	1.11	1.39	1.77	2.30										
8	0.41	0.53	0.67	0.82	1.00	1.22	1.50	1.87	2.41									
8½	0.40	0.51	0.63	0.76	0.92	1.09	1.31	1.58	1.96	2.50								
9	0.39	0.49	0.60	0.72	0.85	1.00	1.13	1.39	1.66	2.03	2.56							
9½	0.38	0.48	0.58	0.69	0.80	0.93	1.08	1.25	1.46	1.72	2.08	2.60						
10	0.38	0.47	0.57	0.66	0.76	0.88	1.00	1.14	1.31	1.51	1.76	2.11	2.61					
10½	0.38	0.47	0.56	0.65	0.74	0.84	0.94	1.06	1.19	1.35	1.55	1.79	2.12	2.60				
11	0.39	0.47	0.56	0.64	0.72	0.81	0.90	1.00	1.11	1.24	1.39	1.57	1.80	2.11	2.56			
11½	0.40	0.48	0.56	0.63	0.71	0.79	0.87	0.95	1.05	1.15	1.27	1.41	1.58	1.79	2.08	2.50		
12	0.41	0.49	0.57	0.64	0.71	0.78	0.85	0.92	1.00	1.08	1.18	1.29	1.41	1.57	1.76	2.03	2.41	
12½	0.43	0.51	0.58	0.65	0.71	0.77	0.83	0.90	0.97	1.03	1.11	1.20	1.29	1.41	1.55	1.72	1.96	2.30

Difference between the course and the first bearing in points

RULE

Multiply the distance run in the interval between the two bearings by the number found in the table under the difference between the course and first bearing, and opposite the difference between the course and second bearing. The product is the distance at the time the second bearing was taken.

EXAMPLE—A light when first seen bore W. N. W.; after running W. S. 16 miles it bore N. ½ W. Required its distance when second bearing was taken.

Difference between course and first bearing, 3 points.

Difference between course and second bearing, 8½ points.

Corresponding tabular number, 0.63, and 16 miles x 0.63 = 10.08 miles, the distance required.

RULES FOR THE GREAT LAKES

r Connecting and Tributary Waters

lations for the government of pilots of vessels gas, fluid, naphtha, or electric motors, and of led by machinery navigating the Great Lakes and tributary waters as far east as Montreal, l of United States Supervising Inspectors, Steam-ice, on February 14, 1907, and approved by the rce and Labor on February 25, 1907, under the of Congress approved February 8, 1895.

---

all be Effective On and After July 1, 1907

Preliminary

rules the words "steam vessel" and "steamer" ssel propelled by machinery.

er way" within the meaning of these rules when or made fast to the shore or aground.

on" can, when circumstances permit, be ascer-vatching the compass bearing of an approaching g does not appreciably change, such risk should

Signals

eathers every steam vessel under way in taking d or required by these rules shall indicate that ing "signals" on her whistle, to be accompanied. by corresponding alteration of her helm; and receiving a signal from another shall promptly ne signal or sound the danger signal as provided

ans, "I am directing my course to starboard," amers are approaching each other at right angles than when one steamer is overtaking another, ifies intention of steamer which is to starboard course and speed.

ean, "I am directing my course to port," except

that when two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, two short blasts signify desire of or assent to steamer which is to port of the other to cross the bow of steamer to starboard.

Rule II. If, when steamers are approaching each other, the pilot of either vessel fails to understand the course or intention of the other, whether from signals being given or answered erroneously, or from other causes, the pilot so in doubt shall immediately signify the same by giving the "danger signal" of four or more short and rapid blasts of the whistle; and if both vessels shall have approached within half a mile of each other, both shall be immediately slowed to a speed barely sufficient for steerageway, and, if necessary, stopped and reversed, until the proper signals are given, answered, and understood, or until the vessels shall have passed each other.

Rule III. Steam vessels are forbidden to use what has become technically known among pilots as "cross signals"—that is, answering one whistle with two, and answering two whistles with one. In all cases, and under all circumstances, a pilot receiving either of the whistle signals provided in the rules, which for any reason he deems injudicious to comply with, instead of answering it with a cross signal, shall at once sound the danger signal and observe the rule applying thereto (Rule II).

Rule IV. The signals for passing, by the blowing of the whistle, shall be given and answered by pilots in compliance with these rules, not only when meeting "head and head," or nearly so, but at all times when passing or meeting at a distance within a half mile of each other, and whether passing to the starboard or port.

Situations

Rule V. When steamers are approaching each other "head and head," or nearly so, it shall be the duty of each steamer to pass on the port side of the other; and the pilot of either steamer may be first in determining to pursue this course, and thereupon shall give, as a signal of his intention, one short and distinct blast of his whistle, which the pilot of the other steamer shall answer promptly by a similar blast of his whistle, and thereupon such steamers shall pass on the port side of each other. But if the courses of such steamers are so far on the starboard of each other as not to be considered by pilots as meeting "head and head," or nearly so, the pilot so first deciding shall immediately give two short and distinct blasts of his whistle, which the pilot of the other steamer shall

two similar blasts of his whistle, and they shall
rd side of each other: Provided, however, that in
where there is a current and in the rivers St.
etroit, Niagara, and St. Lawrence, when two
ng, the descending steamer shall have the right
before the vessels shall have arrived within the
lf mile of each other, give the signal necessary
ide she elects to take.
eamers will be considered as meeting "head and
oth the colored lights of each are in view of the

ever a steamer is nearing a short bend or curve
re, from the height of the banks or other cause,
ing from the opposite direction cannot be seen
alf a mile. the pilot of such steamer, when he
within half a mile of such curve or bend. shall
e long blast of the whistle, which signal shall be
ilar blast, given by the pilot of any steamer
may be approaching on the other side, and within
bend or curve. Should such signal be so answered
the further side of such bend, then the usual
; and passing shall immediately be given and
e first signal of such pilot be not answered, he is
nnel clear and govern himself accordingly.
n a steamer is moved from its dock or berth. and
liable to approach such steamer from any direc-
and any approaching steamer shall give the same
of steamers meeting at a bend; but immediately
lock or berth as to be fully in sight they shall
rules for passing.
en one steamer is overtaking another, and the
which is astern shall desire to pass on the right
of the steamer ahead, he shall give one short
, as a signal of such desire and intention, and
to port; or if he shall desire to pass on the left
steamer ahead, he shall give two short blasts
signal of such desire and intention, and shall put
ard, and the pilot of the steamer ahead shall
signals; or if he does not think it safe for the
ttempt to pass at that point, he shall immediately
giving four or more short and rapid blasts of
nder no circumstances shall the steamer astern

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If you want a good pull

steamer ahead until such time as they have
ere it can be safely done, when said steamer
ner willingness by blowing the proper signals.
in no case attempt to cross the bow or crowd
he passing steamer.

ning up with another vessel from any direction
s abaft her beam—that is, in such a position,
e vessel which she is overtaking, that at night
to see either of that vessel's side lights—shall
overtaking vessel; and no subsequent alteration
en the two vessels shall make the overtaking
sel within the meaning of these rules, or relieve
eeping clear of the overtaken vessel until she is
ear.

vertaking vessel cannot always know with cer-
s forward of or abaft this direction from the
ould, if in doubt, assume that she is an over-
ep out of the way.

channels less than five hundred feet in width,
pass another going in the same direction unless
ad shall be disabled or signify her willingness
astern shall pass, when the steam vessel astern
owever, to the other rules applicable to such a
steam vessels proceeding in opposite directions
such channels, both such vessels shall be slowed
speed, according to the circumstances.

two steamers are approaching each other at
ely so as to involve risk of collision, other than
overtaking another, the steamer which has the
ort side shall hold her course and speed; and
as the other on her own starboard side shall
of the other by directing her course to starboard
ern of the other steamer, or, if necessary to do
l or stop or reverse. The steamer having the
t bow shall blow one blast of her whistle as a
on to cross the bow of the other, holding her
hich signal shall be promptly answered by the
e short blast of her whistle as a signal of her
er course to starboard so as to cross the stern
or otherwise keep clear.

e whatever the conditions covered by this situa-
revent immediate compliance with each other's

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erstanding or objection shall be at once made
; the danger signal, and both steamers shall be
if necesary, until signals for passing with safety
stood.

ı two steamers are approaching each other at
uely, other than when one steamer is overtaking
steamer having the other on her own starboard
bow of the other, without involving risk of
er having the other on her own starboard side
of the other. If the steamers are within half
the steamer having the other on her own star-
e, as a signal of her intention to cross the bow
ort and distinct blasts of her whistle, which, if
er steamer shall promptly answer by two similar
le, when the steamer having the other on her
may cross the bow of the other, in which case
the other on her own port side shall keep out
ther. If, however, the steamer having the other
le deems it dangerous for the other steamer to
shall sound the danger signal, in which case
be stopped, and backed if necessary, until signals
ety are made, answered, and understood.

n a steam vessel and a sailing vessel are pro-
ections as to involve risk of collision the steam
t of the way of the sailing vessel.

obeying and construing these rules due regard
dangers of navigation and collision and to any
s which may render a departure from the above
order to avoid immediate danger.

Fog Signals

enever there is thick weather by reason of fog,
heavy rain storms, or other causes, whether by
signals shall be used as follows:
under way, excepting only a steam vessel with
ound at intervals of not more than one minute
of her whistle.
a raft in tow shall sound at intervals of not
te a screeching or Modoc whistle for from three

tow of another vessel shall, at intervals of one
bells on a good and efficient and properly placed

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anchor and any vessel aground in or near a shall, at intervals of not more than two minutes, y for three to five seconds.

o be Moderate in Fog, and so Forth

y steam vessel shall, in thick weather, by reason snow, heavy rain storms, or other causes, go at steam vessel hearing, apparently not more than ght ahead, the fog signal of another vessel, shall speed to bare steerageway, and navigate with essels shall have passed each other.

Posting of Pilot Rules

other motor vessels of over 100 gross tons, two rd form of these rules (Form 807) shall be kept icuous places in the vessel, one copy of which ed up in the pilot house. On steam and other ver 25 gross tons and not over 100 gross tons, lacard form of pilot rules shall be kept on board, shall be kept posted up in the pilot house. On motor vessels of 25 gross tons and under, two d form of pilot rules shall be kept on board, and, one copy thereof shall be kept conspicuously vessel. (Authority: Section 3, act of Congress 8, 1895.)

Diagrams

diagrams are intended to illustrate the working olored lights and pilot rules:

First Situation

colored lights visible to each will indicate their ead and head" toward each other. In this situa-

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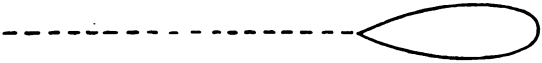
3013 East 91 Street South Chicago, Ill.

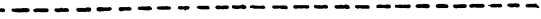
; rule that both shall put their helms to port
rt side of each other, each having previously
ne whistle.

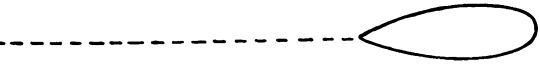
Second Situation



the red light only will be visible to each, the
ne green lights from being seen. Both vessels
to port of each other, which is rulable in this
having previously signified his intention by one

Third Situation





the green light only will be visible to each, the
ne red light from being seen. They are there-
board of each other, which is rulable in this
having previously signified his intention by two

Fourth Situation

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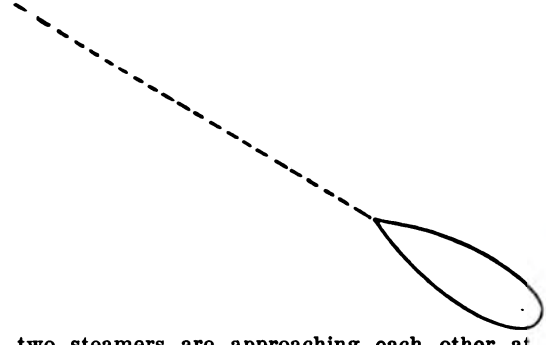
one steamer is overtaking another steamer from
ne angle of two points abaft the beams of the
The overtaking steamer may pass on the star-
f the steamer ahead after the necessary signals
en given, with assent of the overtaken steamer,
e VIII.

Fifth Situation



two steamers are approaching each other at
uely in such manner as to involve risk of col-
here one steamer is overtaking another.
ich has the other on her own port side shall
ed, and the other shall keep clear by crossing
r that is holding course and speed, or if neces-
slacken her speed or stop or reverse.
hall otherwise observe the provisions of Rule X
ignals for passing and the danger signal.

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Sixth Situation

n two steamers are approaching each other at iquely without involving risk of collision, the f both being such as would clearly allow the other on own starboard side to cross the bow t interfering with the course and speed of the the steamer having the other on own starboard ad of the other, after giving the necessary sig- the assent of the other steamer, when within other, as provided in Rule XI.

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:e navigation on the Great Lakes and their con-
' waters.

' the Senate and House of Representatives of
America in Congress assembled, That the fol-
enting collisions shall be followed in the naviga-
l private vessels of the United States upon the
ir connecting and tributary waters as far east

Steam and Sail Vessels

team vessel which is under sail and not under
ered a sail vessel; and every steam vessel which
ther under sail or not, shall be considered a
word steam vessel shall include any vessel pro-
A vessel is under way within the meaning of
e is not at anchor or made fast to the shore,

Lights

ghts mentioned in the following rules and no
ed in all weathers from sunset to sunrise. The
rules when applied to lights shall mean visible
a clear atmosphere.

in the cases hereinafter expressly provided for,
under way shall carry:

ront of the foremast, or if a vessel without a
fore part of the vessel, at a height above the
twenty feet, and if the beam of the vessel ex-
en at a height above the hull not less than such
hat such height need not exceed forty feet, a
constructed as to show an unbroken light over
n of twenty points of the compass, so fixed as
points on each side of the vessel, namely, from
oints abaft the beam on either side, and of such
sible at a distance of at least five miles.

board side, a green light, so constructed as to
ight over an arc of the horizon of ten points of
l as to throw the light from right ahead to two

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n on the starboard side, and of such a character distance of at least two miles.

t side, a red light, so constructed as to show ver an arc of the horizon of ten points of the o throw the light from right ahead to two points ne port side, and of such a character as to be of at least two miles.

reen and red lights shall be fitted with inboard least three feet forward from the light, so as ts from being seen across the bow.

f over one hundred and fifty feet register length n under way an additional bright light similar at mentioned in subdivision (a), so fixed as to round the horizon and of such a character as stance of at least three miles. Such additional l in line with the keel at least fifteen feet and more than seventy-five feet abaft the light son (a).

Vessels Towing

vessel having a tow other than a raft shall in ard bright light mentioned in subdivision (a) n a vertical line not less than six feet above or cond bright light of the same construction and nd carried in the same manner as the forward ed in said subdivision (a) of rule three. Such rry a small bright light abaft the funnel or after steer by, but such light shall not be visible

n vessel having a raft in tow shall, instead of entioned in rule four, carry on or in front of a vessel without a foremast, then in the fore height above the hull of not less than twenty of the vessel exceeds twenty feet, then at a l not less than such beam, so, however, that exceed forty feet, two brights in a horizontal l not less than eight feet apart, each so fixed all around the horizon and of such character distance of at least five miles. Such steamer small bright steering light aft, of the character in rule four.

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North Side
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g vessel under way and any vessel being towed
lights mentioned in rule three.

shall also carry a small bright light aft, but
be visible forward of the beam.

hts for tugs under thirty tons register, whose
harbor towing and for boats navigating only
wrence, also ferryboats, rafts, and canal boats,
y rules which have been or may hereafter be
ard of Supervising Inspectors of Steam Vessels.

er, as in the case of small vessels under way
the green and red side lights cannot be fixed,
kept at hand lighted and ready for use, and
h of or to other vessels, be exhibited on their
ufficient time to prevent collision, in such man-
most visible, and so that the green light shall
ort side, nor the red light on the starboard side,
nore than two points abaft the beam, on their
make the use of these portable lights more
y shall each be painted outside with the color
spectively contain, and shall be provided with

under one hundred and fifty feet register length
ll carry forward, where it can best be seen,
exceeding twenty feet above the hull, a white
nstructed so as to show a clear, uniform, and
le all around the horizon, at a distance of at

hundred and fifty feet or upward in register
or, shall carry in the forward part of the vessel,
ess than twenty and not exceeding forty feet
ch light, and at or near the stern of the vessel,
that it shall be not less than fifteen feet lower
t, another such light.

ce boats, canal boats, fishing boats, rafts, or
avigating any bay, harbor, or river by hand
sail, or by the current of the river, or which
moored in or near the channel or fairway of
river, and not otherwise provided for in these
e or more good white lights, which shall be
r as shall be prescribed by the Board of Super-
Steam Vessels.

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Rule 11. Open boats shall not be obliged to carry the side lights required for other vessels, but shall, if they do not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels such lantern shall be exhibited in sufficient time to prevent collision, and in such a manner that the green light shall not be seen on the port side, nor the red light on the starboard side. Open boats, when at anchor or stationary, shall exhibit a bright white light. They shall not, however, be prevented from using a flare-up in addition if considered expedient.

Rule 12. Sailing vessels shall at all times, on the approach of any steamer during the night-time, show a lighted torch upon that point or quarter to which such steamer shall be approaching.

Rule 13. The exhibition of any light on board of a vessel of war or revenue-cutter of the United States may be suspended whenever, in the opinion of the Secretary of the Navy, the commander in chief of a squadron, or the commander of a vessel acting singly, the special character of the service may require it.

Fog Signals

Rule 14. A steam vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam, placed before the funnel not less than eight feet from the deck, or in such other place as the local inspectors of steam vessels shall determine, and of such character as to be heard in ordinary weather at a distance of at least two miles, and with an efficient bell, and it is hereby made the duty of the United States local inspectors of steam vessels when inspecting the same to require each steamer to be furnished with such whistle and bell. A sailing vessel shall be provided with an efficient fog horn and with an efficient bell.

Whenever there is thick weather by reason of fog, mist, falling snow, heavy rainstorms, or other causes, whether by day or by night, fog signals shall be used as follows:

(a) A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute three distinct blasts of her whistle.

(b) Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking

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ssels, but shall, if they do not carry such lights,
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nd on the approach of or to other vessels such
bited in sufficient time to prevent collision, and
at the green light shall not be seen on the port
ht on the starboard side. Open boats, when at
shall exhibit a bright white light. They shall
vented from using a flare-up in addition if con-

vessels shall at all times, on the approach of
the night-time, show a lighted torch upon that
which such steamer shall be approaching.

xhibition of any light on board of a vessel of
of the United States may be suspended when-
of the Secretary of the Navy, the commander in
or the commander of a vessel acting singly, the
the service may require it.

Fog Signals

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steam or by some substitute for steam, placed
less than eight feet from the deck, or in such
cal inspectors of steam vessels shall determine,
er as to be heard in ordinary weather at a
two miles, and with an efficient bell, and it is
of the United States local inspectors of steam
ting the same to require each steamer to be
whistle and bell. A sailing vessel shall be pro-
t fog horn and with an efficient bell.

is thick weather by reason of fog, mist, falling
rms, or other causes, whether by day or by
ll be used as follows:

ssel under way, excepting only a steam vessel
ll sound at intervals of not more than one min-
sts of her whistle.

l in tow of another vessel shall, at intervals of
our bells on a good and efficient and properly
vs: By striking the bell twice in quick suc-
a little longer interval, and then again striking

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ession (in the manner in which four bells are
time).

with a raft in tow shall sound at intervals of
minute a screeching or Modoc whistle for from
.

vessel under way and not in tow shall sound at
e than one minute—

ard tack with wind forward of abeam, one blast

ack with wind forward of the beam, two blasts

wind abaft the beam on either side, three blasts

l at anchor and any vessel aground in or near
y shall at intervals of not more than two minutes
for three to five seconds.

less than 10 tons registered tonnage not being
l not be obliged to give the above-mentioned
do not they shall make some other efficient
ervals of not more than one minute.

oats, fishing boats, rafts, or other water craft
power or by current of the river, or anchored
r the channel or fairway and not in any port, and
ded for in these rules, shall sound a fog horn,
at intervals of not more than one minute.

vessel shall, in thick weather, by reason of fog,
eavy rainstorms, or other causes, go at moderate
sel hearing apparently not more than four points
the fog signal of another vessel shall at once
bare steerage way, and navigate with caution
all have passed each other.

EERING AND SAILING RULES

Sailing Vessels

two sailing vessels are approaching one another
k of collision one of them shall keep out of the
follows, namely:

hich is running free shall keep out of the way
close hauled.

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which is close hauled on the port tack shall keep
a vessel which is close hauled on the starboard

h are running free, with the wind on different
ich has the wind on the port side shall keep out
ther.

y are running free, with the wind on the same
ich is to windward shall keep out of the way of
to leeward.

Steam Vessels

two steam vessels are meeting end on, or nearly
olve risk of collision, each shall alter her course
t each shall pass on the port side of the other.

two steam vessels are crossing so as to involve
vessel which has the other on her own starboard
of the way of the other.

a steam vessel and a sailing vessel are pro-
ections as to involve risk of collision the steam
t of the way of the sailing vessel.

e, by any of the rules herein prescribed, one of
keep out of the way, the other shall keep her

steam vessel which is directed by these rules
way of another vessel shall, on approaching her,
her speed or stop or reverse.

hstanding anything contained in these rules every
ny other shall keep out of the way of the over-

weathers every steam vessel under way in taking
ed or required by these rules shall indicate that
wing signals on her whistle, to be accompanied
by corresponding alteration of her helm; and
receiving a signal from another shall promptly
me signal, or, as provided in Rule Twenty-six:

an, "I am directing my course to starboard."

mean, "I am directing my course to port." But
ering signals by a vessel required to keep her
ry the duties and obligations of the respective

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ı all narrow channels where there is a current, t. Mary, St. Clair, Detroit, Niagara, and St. steamers are meeting, the descending steamer of way, and shall, before the vessels shall have istance of one-half mile of each other, give the ıdicate which side she elects to take.

channels less than five hundred feet in width, all pass another going in the same direction sel ahead be disabled or signify her willingness astern shall pass, when the steam vessel astern wever, to the other rules applicable to such a steam vessels proceeding in opposite directions in such channels, both such vessels shall be oderate speed, according to the circumstances.

pilot of a steam vessel to which a passing signal unsafe to accept and assent to said signal, he oss signal; but in that case, and in every case one steamer fails to understand the course or roaching steamer, whether from signals being erroneously, or from other causes, the pilot of eiving the first passing signal, or the pilot so in veral short and rapid blasts of the whistle; and have approached within half a mile of each luce their speed to bare steerageway, and, if reverse.

ying and construing these rules due regard shall s of navigation and collision and to any special may render a departure from the above rules o avoid immediate danger.

g in these rules shall exonerate any vessel, or or crew thereof, from the consequences of any ts or signals, or of any neglect to keep a proper glect of any precaution which may be required ctice of seamen, or by the special circumstances

fine not exceeding two hundred dollars may be ation of any of the provisions of this act. The e for the said penalty, and may be seized and y way of libel, in the district court of the United ct within which such vessel may be found.

Secretary of Commerce and Labor of the United

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States shall have authority to establish all necessary regulations, not inconsistent with the provisions of this act, required to carry the same into effect.

The Board of Supervising Inspectors of the United States shall have authority to establish such regulations to be observed by all steam vessels in passing each other, not inconsistent with the provisions of this act, as they shall from time to time deem necessary; and all regulations adopted by the said Board of Supervising Inspectors under the authority of this act, when approved by the Secretary of Commerce and Labor shall have the force of law. Two printed copies of any such regulations for passing, signed by them, shall be furnished to each steam vessel, and shall at all times be kept posted up in conspicuous places on board.

Sec. 4. That all laws or parts of laws, so far as applicable to the navigation of the Great Lakes and their connecting and tributary waters as far east as Montreal, inconsistent with the foregoing rules are hereby repealed.

Sec. 5. That this act shall take effect on and after March first, eighteen hundred and ninety-five.

RULES AND REGULATIONS GOVERNING THE MOVEMENTS AND ANCHORAGE OF VESSELS

Rule I. Speed.—No vessel navigating the St. Mary's river shall proceed at a greater speed than 10 statute miles per hour over the ground between Everens Point and the northern float lights in lower Hay Lake, marking the end of the Middle Neebish Channel, nor between the cribs in Mud Lake and the cribs in Hay Lake, marking the lower and upper ends, respectively, of the West Neebish Channel, nor between the crib light in upper Hay Lake opposite Sixmile Point and the dike at Bayfield Shoal, nor between the western end of St. Mary's Falls Canal and Big Point.

Vessels of 500 tons or less are exempt from the provisions of this rule.

Vessels navigating the St. Mary's River may proceed at full speed and pass other vessels moving in the same direction between Point Detour and the Mud Lake beacon in the northern part of Mud Lake, and in deep water in Hay Lake. Upbound vessels may also proceed at full speed and pass other vessels going in the same direction between Mud Lake beacon and Everens Point.

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No vessel passing another vessel shall move at a rate of speed greater than ten statute miles per hour over the ground. (See also Rule V.)

Rule II. Middle and West Neebish Channels.—No upbound vessels shall pass the St. Mary's River by the way of the West Neebish Channel, and no downbound vessels shall pass by way of the Middle Neebish Channel, except vessels of 500 tons or less and vessels making regular local stops on these channels.

Rule III. Upbound vessels passing.—Upbound vessels shall not pass over vessel moving in the same direction between Everens Point and the red gas buoy at lower end of little Mud Lake on the Dark Hole range, nor between the second red spar buoy east of the Middle Neebish Channel in Hay Lake, nor between the crib light in upper Hay Lake opposite Sixmile Point and the dike at Bayfield Shoal, nor between the west end of St. Mary's Falls Canal pier and Big Point.

Upbound vessels may pass other vessels going in the same direction in Mud Lake below Everens Point in deep water in Hay Lake.

Rule IV. Downbound vessels passing.—Downbound vessels shall not pass other vessels moving in the same direction between Big Point and the St. Mary's Falls Canal, nor between the dike at Bayfield Shoal and the crib light in upper Hay Lake opposite Sixmile Point, nor between the crib lights in lower Hay Lake, making the entrance to the West Neebish Channel, and the crib lights marking the lower end of the West Neebish Channel near the Mud Lake beacon.

Downbound vessels may pass other vessels going in the same direction in deep water in Hay Lake and in Mud Lake below the Mud Lake beacon.

Rule 5. In case one steamer desires to pass another going in the same direction on said river, at a point where such passing is permitted by these rules, the pilot of the steamer astern shall, if he intends to pass the steamer ahead on the right hand or starboard side, indicate such intention by giving one short blast of the steam whistle, and if he intends to pass such steamer ahead on the left hand or port side, he shall indicate such intention by giving two short blasts of the steam whistle. Upon the pilot of one steamer astern of another giving such signal, the pilot of the steamer ahead shall immediately answer by giving the same signal; but if he does not think it safe for the steamer astern to attempt to pass at that

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point, he shall immediately signify the same by giving several short and rapid blasts of the steam whistle; and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals; then the steamer ahead shall slacken to a slow rate of speed, and the steamer astern shall pass the overtaken steamer, giving the overtaken steamer as wide a berth as possible.

Steamers bound in opposite directions shall slow to half speed within one-quarter of a mile of each other until each has passed the other.

Rule 6. The patrolling vessels of the revenue cutter service shall always have the right of way over all other vessels, as indicated by the sailing signals given by any such patrolling vessel.

Rule 7. Three distinct blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 8. Four long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

Rule 9. Two red lanterns, one above the other, hoisted on a patrolling vessel at night, will indicate to the vessel to which such signal is given that such vessel must stop and not proceed farther toward the position where such lights are displayed.

Rule 10. No vessel or raft shall anchor in any of the improved channels now abreast of the government piers at Sault Ste. Marie, except in distress or during a fog, and any vessel so anchored must always shift her anchorage when so directed by the officer in charge of a patrolling vessel to the spot designated by such officer.

Rule 11. Vessels navigating the St. Mary's river may anchor between Point Detour and Mud Lake turning buoy, and at Sailors' Encampment close to the wharves of the sawmill; in Hay Lake between the Neebish and Little Rapids channel outside of the channel as indicated by the ranges, but nothing in this rule shall be construed to prohibit any vessel from lying alongside of any wharf in said river.

Rule 12. Rafts being towed in the St. Mary's river will be required to use what is termed the "old or St. George channel."

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From Harwood point to Mud Lake turning buoy they will move at the time designated by the officer in charge of the patrolling vessel. When lying by they must be moored out of the channel.

Rule 13. In navigating the St. Mary's river, in all cases where the foregoing rules are not applicable, the attention of masters and pilots is called to the sailing rules contained in the act of Congress of Feb. 8, 1895.

Rule 14. All vessels navigating the St. Mary's river, in passing dredges and vessels at work on improvements to the channel, will be required to slacken their speed upon such dredge or other vessels engaged in such improvement giving the signal of three distinct blasts of the steam whistle.

Rule 15. The pilot of every steamer descending the St. Mary's river shall, when abreast of the Dark Hole gas buoy, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration. which signal shall be answered by a blast of the steam whistle of the same duration by any vessel ascending said river within hearing. The pilot of every steamer ascending said river, not having heard such signal from a descending steamer, shall, when abreast of Everens Point, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which shall be answered by a blast of the steam whistle of the same duration by any vessel descending said river within hearing. After such signal of one blast of the steam whistle of 10 seconds' duration shall have been given and answered, the usual passing signal must be given.

Vessels of 500 tons or less and local boats are alone permitted to pass down this channel.

Rule 16. Any steamer approaching a tug towing a dredge or scow moving in the same direction may pass such tow by giving the proper signal indicating upon which side of such tow such steamer will pass, and it shall be the duty of the pilot of any such tug to sheer on the side of the channel indicated by such passing signal and give the passing steamer all possible room.

Rule 17. No steamer stemming the current through the Dyke and Island Cut shall be allowed to tow more than one vessel without the aid of a tug unless such steamer has the power to move the tow over the ground at the rate of at least four miles an hour.

Rule 18. No steamer navigating the St. Mary's river, either ascending or descending, shall pass another steamer or steamers

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Str. Harlow.
Str. Excavator.

No. 83 Collins Inlet Lumber Co., Ltd., Toronto, Ont.

Schr. White Oak.

No. 84 Conger Lehigh Coal Co., Ltd., Toronto, Ont.

Str. Conger Coal.

No. 85 **Connelly Brothers,** Ohio Street, Buffalo, N. Y.
Bge. Arthur.
Bge. Redington, Nellie.

No. 86 **Cota, George,** Neopit, Wis.
Schr. Aldrich, Wm.

No. 87 **Craig, John, Mgr.,** 1538 Nicholas Bldg., Toledo, Ohio.
Adams Transportation Co.
Str. Adams, Thomas.

Monroe Transportation Co.
Str. Craig, George L.

Toledo Steamship Co.
Str. Zimmerman, Eugene.

No. 88 **Cream City Sand & Gravel Co.,** Edison St., Milwaukee, Wis.
Str. Desmond.

No. 89 **Crosby Transportation Co.,** Grand Haven, Mich.
Str. Conestoga.
Str. Crosby, E. G.
Str. Nyack.

No. 90 **Crosthwaite, J. L.,** 15 Broad St., New York City.
Str. Georgetown.
Str. International.
Str. Waccamaw.
Bge. Buckeye State.
Bge. Harrison, Ben.

No. 91 **Daryaw, Henry,** Wolf Island, Ont.
Schr. Merrill, Julia B.

No. 92 **Davidson Steamship Co.,** Bay City, Mich.
Str. Amazonas.
Str. Orinoco.
Str. Osborne, F. M.
Str. Sacramento.
Str. Saunders, E. N.
Str. Shenandoah.
Str. Steel King.

Chieftain.
Grampian.
Granada.
Matanzas.
Montezuma.
Paisley.

Wm., Ltd., Toronto, Ont.
Ada Alice.

Co., J. R., Rockefeller Bldg., Cleveland, O.
Steamship Co.
Davock, W. B.

nship Co., Sandusky, Ohio.
Columbus.
Hazel.

Alexandre, Lanoraie, Que.
. Lyon, Mary.

, Alphonse, Lanoraie, Que.
Cobalt.

nk, Tonawanda, N. Y.
Commodore.

Vindsor Ferry Co., Detroit, Mich.
Brittania.
Columbia.
Excelsior.
Garland.
Pleasure.
Promise.
Ste. Clair.
Sappho.
Victoria.

Cleveland Nav. Co., Detroit, Mich.
City of Alpena II.
City of Cleveland III.
City of Detroit III.
City of Detroit II.
City of Mackinac II.
City of St. Ignace.

Str. State of New York.
Str. Eastern States.
Str. Western States.

No. 101 **Desrosier, Zenon,** St. Joseph Sorel, Que.
Bge. Katahdin.

No. 102 **Devine & Turnbull,** Douglass, Mich.
Str. Liberty.

No. 103 **Diamond Crystal Salt Co.,** St. Clair, Mich.
Str. Colborn, A. R.
Str. Hilton.

No. 104 **Dodge, E. J.,** Put-in-Bay, Ohio.
Str. Tourist.

No. 105 **Doherty James,** Belleville, Ont.
Schr. Keewatin.

No. 106 **Dominion Iron & Steel Co., Ltd.,** Sydney, Cape Breton, Can.
Str. Corunna.
Str. Nevada.

No. 107 **Dominion Transportation Co., Ltd., C. E. Ainsworth, Mgr.,** Sault Ste. Marie, Mich.
Str. Caribou.
Str. Manitou.

No. 108 **Donald Steamship Co.,** 18 Broadway, New York City.
Str. Honoreva.
Str. Norhilda.
Str. Querida.

No. 108½ **Donnelley, Salvage & Wrecking Co., Ltd.,** Kingston, Ont
Bge. Harriet D.

No. 109 **Douglass, George, 371 Ferdinand Ave.,** Detroit, Mich.
Str. Gill, Alice M.
Str. Markham, Geo. C.

No. 110 **Doville Lake Sand & Gravel Co.,** 424 Water St., Toledo, O.
Str. Commerce.
Str. DoVille, R. E.

No. 111 **Emig, T.,** St. Clair, Mich.
Str. Jex, H. N.

Bulgaria.
Three Brothers.
. Keith, Ida.

al Co., Ltd., Montreal, Que.
. Melbourne.

James, 440 West 15th St., Milwaukee, Wis.
r. Lake Forest.

ad Lake Line, J. C. Maclay, Supt., Buffalo, N. Y.
Binghamton.
Brownell, Geo. F.
Cooke, D. W.
McCollough, J. C.
Owego.
Richardson, G. A.
Tioga.
Underwood, F. D.

ichigan Ry. & Nav. Co., 108 S. LaSalle St.,
ilhelm Traffic Mgr., Chicago, Ill.
Greene, M. T.

& Garden Bay Trans. Co., Escanaba, Mich.
Saugatuck.

al Co., 149 Clybourn Place, Chicago, Ill.
r. Williams, Ellen.

t. Joe, Belleville, Ont.
r. Filer, Grace M.

ge E., Mgr., 107 Mail Bldg., Toronto, Ont.
r Transportation Co., Ltd.
Collingwood.
Meaford.

. A., Mgr., Rockefeller Bldg., Cleveland, Ohio.
ier S. S. Co.
Corrigan, James.
Meacham, D. B.
Munro, J. G.

ra Transit Co.
. Rogers, Wm. A.

Tonawanda Transit Co.
Str. Weston, Charles.

No. 121 **Ferris, R. J.,** Grand Rapids, Mich.
Schr. Walsh, Lizzie.

No. 122 **Finn & Olsen Freighting Co.,** Marinette, Wis.
Str. Carter, W. J.

No. 123 **Fisher, Geo. A.,** Harbor Beach, Mich.
Schr. Weaver, Jennie.

No. 124 **Finn & Olsen,** Marinette, Wis.
Schr. Joses.

No. 125 **Flint, J. J. B.,** Belleville, Ont.
Schr. Marsh, George A.

No. 126 **Follette, W. H.,** Tonawanda, N. Y.
Str. Follette, J. W.

No. 127 **Forwarders Limited,** Kingston, Ont.
Str. Dwyer, W. H.
Str. Port Colborne.
Str. Port Dalhousie.

No. 128 **Garey, J. C.,** Saginaw, Mich.
Str. Cherokee.
Str. Holland, Robt.
Bge. Fassett, T. S.
Bge. Holland, N. C.
Bge. Owen, G. B.

No. 129 **Garlock, C. J.,** Marine City, Mich.
Bge. Genoa.

No. 130 **Gilbert, W. H.,** Belleville, Ont.
Schr. Suffell, W. J.

No. 131 **Gilchrist Transportation Co., John Gilchrist, Mgr.,** Cleveland, Ohio.
Str. Maytham, Thomas.
Str. Mecosta.
Str. Neosha.
Str. Oglebay, E. W.
Str. Wallula.
Str. Williams, G. F.
Bge. Tyrone.

vard, Racine, Wis.
Rudolph, William.
. Jones, J. V.
. Progress.

, James, Bayport, Mich.
. Flint, Sam.

hn, Wyandotte, Mich.
Douglass.

Transit Co., H. W. Thorp, Mgr., Foot of Mich-
e., Chicago, Ill.
Alabama.

Arizona.
Carolina.
Chicago.
Christopher Columbus.
Georgia.
Indiana.
Virginia.

bor Lumber Co., Detroit, Mich.
Toltec.
. Godfrey, G.

olin, Kincardine, Ont.
. Davis, Lyman C.

Morton Trans. Co., Chicago, Ill.
City of Benton Harbor.
City of Grand Rapids.
City of Traverse.
Holland.
Puritan.

nk Railway Co., Windsor, Ont.
Great Western.
Huron.
Landsdowne.

nk-Milwaukee Car Ferry Co., Milwaukee, Wis.
Grand Haven.
Milwaukee.

No. 141 **Granville, Frank, Chatham, Ont.**
Schr. Hutt, Hattie.

No. 142 **Graves-Bigwood Co., Foot of Hertel Ave., Buffalo, N. Y.**
Str. Mohegan.
Bge. Mingoe.

No. 143 **Gray, Edward, Detroit, Mich.**
Str. City of Straits.

No. 144 **Gray, R. T., Mgr., Detroit, Mich.**
J. Emery Owen Transportation Co.
Str. Owen, John.

No. 145 **Great Lakes Engineering Works Co., Detroit, Mich.**
Str. Caledonia.
Str. Italia.

No. 146 **Great Lakes Steamship Co., Rockefeller Bldg., Cleveland, Ohio.**
Str. Brower, A. G.
Str. Brown, W. W.
Str. Coulby, Harry.
Str. Cowle, J. B.
Str. Denmark.
Str. Dunn, John, Jr.
Str. Durstin, J. F.
Str. Hubbard, Charles.
Str. Leonard, G. B.
Str. Nettleton, A. E.
Str. Norway.
Str. Nottingham, Wm.
Str. Smith, B. Lyman.
Str. Smith, Hurlburt W.
Str. Smith, L. C.
Str. Smith, Lyman C.
Str. Smith, Monroe C.
Str. Smith, Wilbert L.
Str. Thompson, Smith.
Str. Warner, C. M.
Str. Wilkinson, H. S.

No. 147 **Green Bay Vessel Co., Green Bay, Wis.**
Str. Orion.

Stone & Quarrying Co., Sawyer, Wis.
Bge. Adriatic.
Bge. Butman, Myron.
Bge. Carpenter, A. A.

g Brothers, Green Bay, Wis.
Str. Soper, Albert.

y Beach & South Shore Nav. Co., Grimsby Beach,

Str. Grimsby.

t Towing & Wrecking Co., Ltd., Amherstburg, Ont.
Bge. McWilliams, Ed.
Tug Hackett, F. B.

Co., F. E., Montreal, Canada.
Str. Carleton.
Str. Cardinal.
Str. Sinbad.

Eligh, Ltd., Ottawa, Que.
Str. Roberval.

ames H., Ottawa, Que.
Str. Westerian.

oal Co., George, Ogdensburg, N. Y.
Str. Hall, Henry B.
Str. Hecla.
Str. Iselin, Adrian.
Str. Jones, F. P.
Str. Mercur, Fred.
Str. Morley, W. B.
Str. MacTier, A. D.
Str. Phenix.
Str. Robinson, L. W.
Str. Rugee, John.
Bge. Mathews, Jennie.
Bge. Sherman, W. A.

son, O., Sheboygan, Wis.
Schr. Nau, Libbie.

No. 158 **Hamilton, W. D.,** Care of Hines Lumber Co., Chicago, Ill.
Schr. Lotus.
Bge. Jenness, B. W.

No. 159 **Hanna & Co., M. A., Mgrs.,** Leader-News Bldg., Cleveland, Ohio.

Calumet Transportation Co.
Str. Agassiz, R. L.
Str. Flagg, G. A.
Str. Shaw, Quincy A.
Str. Warner, Randolph S.
Bge. Thompson, A. W.
Bge. Warriner, S. D.

Cambria Steamship Co.
Str. Morrell, Daniel J.
Str. Townsend, Edward Y.

Eastern Steamship Co.
Str. Wood, Joseph.

Franklin Transportation Co.
Str. Fitch, William F.
Bge. Maitland, Alex.

LaBelle Steamship Co.
Str. LaBelle.

Mahoning Steamship Co.
Str. Hanna, Leonard C.
Str. Donner, W. H.
Str. Stackhouse, Powell.

Republic Iron Co.
Str. Republic.

Republic Transportation Co
Str. Brown, W. L.
Str. Elphicke, M. C.
Str. French, G. W.

Scott Steamship Co.
Str. Saunders, Jr., E. N.
Str. Turner, J. J.
Str. Uhrig, Edward A.

ginia Steamship Co.
tr. Crawford, W. D.

Ole, Milwaukee, Wis.
chr. Clara.

W. J., 416 Adams Street, Toledo, O.
tr. Nipigon.

ansportation Co., Sturgeon Bay, Wis.
tr. Bon Ami.
tr. Sailor Boy.
tr. Thistle.

Henry A., Montreal, Que.
tr. Omaha.

Morrison Co., 1410 W. 11th Street, Cleveland,

tr. Spalding, Jesse.

igh Steamship Co.
tr. Lehigh.

d, W. A. & A. H., Mgrs., Perry-Payne Bldg., Cleve-
Ohio.

me Transit Co.
tr. Bransford.
tr. Hawgood, H. B.
tr. Holmes, Edwin F.
tr. Jenks, J. M.
tr. Umbria.
tr. Wisconsin.

wgood & Avery Transit Co.
tr. Curry, S. S.

on, R. J., Winnipeg, Manitoba.
tr. Fryer, R. L.

Lumber Co., Herman H., Elston Ave., Chicago, Ill.
tr. Christie, T. S.
tr. Hettler, H. H.
ge. Interlaken.

No. 168 **Hickley, John,** Sault Ste. Marie, Mich.
Str. Minnie M.

No. 169 **Hill Steamboat Line,** Kenosha, Wis.
Str. City of Marquette.
Str. Maywood.

No. 170 **Hines Lumber Co., Edward,** Chicago, Ill.
Str. Barth, L. L.
Str. Hines, L. E.
Str. Niko.
Str. Pahlow, Lewis.
Str. Sawyer, W. H.
Bge. Ashland.
Bge. Case, J. I.
Bge. City of Chicago.
Bge. Delta.
Bge. Filer, D. L.
Bge. Helvetia.
Bge. Hutchinson, E. C.
Bge. Norris, A. B.
Bge. Redfern, C. E.
Bge. Tilden, S. J.
Bge. Tuxberry, A. C.

No. 171 **Hinckley-Cornwall Forwarding Co.,** Alexandria Bay, N. Y.
Str. Hinckley.
Str. Isabella H.
Bge. Jessie.

No. 172 **Hinkelman, Andrew,** Marine City, Mich.
Bge. Melvina.

No. 173 **Hoeft, Paul H.,** Rogers City, Mich.
Str. Starke, C. H.

No. 174 **Hoey, W. T.,** Alpena, Mich.
Str. Helen C.

No. 175 **Hogan, M. J.,** Pt. Colborne, Ont.
Str. Lakeside.

No. 176 **Holmes & Co., W. E.,** Insurance Exchange Bldg., Chicago, Ill.
Str. Mueller.
Bge. Halstead.

bick Transportation Co.
tr. Ralph, P. J.
ge. Connelly Brothers.
ge. Harold.

lkaska Steamship Co.
tr. Kalkaska.
ge. Fryer, R. L.

dward H., Mgr., 371 Hurlbut Ave., Detroit, Mich.
tr. Plankinton, John.

Grant G., Sarnia, Ont.
tr. Hall, S. C.
tr. Mills, Robert.
ge. Brainard, Katie.
ge. Jackson, G. K.

n, H., Hammond Bldg., Detroit, Mich.
tr. Mary.

son & Co., Mgrs., 1011 Leader-News Bldg., Cleve-
Ohio.

sica Transit Co.
tr. Corsica.
ge. Abyssinia.

nd Steamship Co.
tr. Block, Joseph.
tr. Leopold, N. F.

kins Steamship Co.
tr. Jenkins, C. O.
tr. Shaughnessy, Sir Thomas.
tr. Squire, F. B.

kewood Steamship Co.
tr. Maruba.

neer Steamship Co.
tr. Amazon.
tr. Augustus, A. A.
tr. Australia.
tr. Butler, Jr., J. G.
tr. Hanna, D. R.

Str. Hutchinson, J. T.
Str. McKinney, Price.
Str. Mullen, Martin.
Str. Nye, Harold B.
Str. Paine, W. A.
Str. Polynesia.
Str. Stanton, John.
Str. Sullivan, J. J.
Str. Walsh, J. P.

No. 181 **Hydraulic Sand & Transit Co.**, Chicago, Ill.
Str. Hydro.

No. 182 **Illinois State Militia**, Chicago, Ill.
Str. Commodore.

No. 183 **Imperial Oil Co., Ltd.**, Sarnia, Ont.
Str. Imperial.
Str. Imperoyal.
Str. Iocoma.
Bge. "41".

No. 184 **Indiana Transportation Co., W. K. Greenbaum, Mgr.**, 114 South Water St., Chicago, Ill.
Str. Rochester.

Str. Roosevelt, Theodore.
Str. United States.

No. 185 **International Ferry Co.**, Buffalo, N. Y.
Str. Niagara Frontier.
Str. United Shores.

No. 186 **International Transit Co.**, Sault Ste. Marie, Ont.
Str. Algoma.
Str. Bawating.

No. 187 **Irondequoit Navigation Co.**, Irondequoit, N. Y.
Str. Glenn.

No. 188 **Jacques & Sons Co.**, Ely, Foot of First St., Detroit, Mich.
Str. Brokate.
Str. Canisteo.
Str. Westcott, J. W.

C. W., care of Bader Lumber Co., Chicago, Ill.
Str. Jacob, C. W.

N., 1749 Summit St., Toledo, Ohio.
Bge. Bloom, Nelson.
Bge. Clint, D. K.
Bge. Judd, E. T.

Brothers, Ltd., Owen Sound, Ont.
Schr. Magill, C. J.

Edward, Wallaceburg, Ont.
Bge. Cyrenian.

Island Lime & Transport Co., Leader-News Bldg., eland, Ohio.
Str. Chisholm, Alva, Jr.
Str. Clinton.
Str. Kelley Island.
Str. Michigan Central.
Str. Recor, E. P.
Bge. Cutler, D. G.
Bge. Kelly, Norman.
Bge. Pellatt, J. H.

, Harvey J., Marysville, Mich.
Str. Kendall, Harvey J.

ne Trans. Co. of Canada, Ltd., Montreal, Canada.
Str. Key Port.
Str. Keybell.
Str. Keynor.
Str. Keyvive.
Str. Key West.

. B., 2603 Vestry St., Cleveland, Ohio.
Bge. Francombe, John A.

dward Park Co., Ltd., Montreal, Que.
Str. Duchess of York.

, A. T., Mgr., Rockefeller Bldg., Cleveland, Ohio.
ckeye Steamship Co.
Str. Wright, A. P.
nney Steamship Co.
Str. Ashley, J. S.

Str. Caldera.
Str. Ireland, R. L.
Str. Upson, A. S.

No. 199 **Kitzinger, Gus, Mgr.,** Manistee, Mich.
Pere Marquette Line Steamers.
Str. Pere Marquette No. 3.
Str. Pere Marquette No. 4.
Str. Pere Marquette No. 5.
Str. Pere Marquette No. 6.
Str. Pere Marquette No. 7.
Str. Pere Marquette No. 8.

No. 200 **Klise, A. B.,** Sturgeon Bay, Wis.
Str. Buckley, Edward.

No. 202 **Kroos, Julius,** Sheboygan, Wis.
Str. Chipman, Susie.

No. 203 **Kuhn, John,** Marine City, Mich.
Str. Sicken, M.

No. 204 **La Croix, Peter,** Port Huron, Mich.
Bge. Brake, William.

No. 205 **Lake Commerce, Ltd., J. F. M. Stewart, Pres.,** 304 McKinnon Bldg., Toronto, Ont.
Str. Valcartier.

No. 206 **Lake Erie Excursion Co., H. S. Fisher, Mgr.,** Buffalo, N. Y.
Str. Americana.
Str. Canadiana.

No. 207 **Lake Erie Transportation Co., F. J. Maxwell, Mgr.,** Wade Bldg., Cleveland, Ohio.
Str. Mack, W. S.

No. 208 **Lake Erie Navigation Co.,** Conneaut, Ohio.
Str. Marquette & Bessemer No. 1.

No. 209 **Lake Sand Co., R. F. Smith, Mgr.,** 19 S. LaSalle St., Chicago, Ill.
Str. Dahlke, H.
Str. Gunnell, E.
Str. Hausler, M. G.

ore Sand & Gravel Co., 2157 W. 3d St., Cleveland,
tr. Junior.

ore Stone Co., Milwaukee, Wis.
tr. Hennipin.
tr. Topeka.

J. D., Mgr., Detroit, Mich.
keside Steamship Co.
tr. Mitchell, Alfred.

e, Alphonse, A., Montreal, Que.
tr. Pennsylvania.

e, Harry, Marine City, Mich.
ge. Teutonia.

e, Julius, Marine City, Mich.
ge. Gawn, Thomas.

Valley Railroad Co., C. T. O'Neal, Supt., Buffalo
, Lake Division.
tr. Bethlehem.
tr. Mauch Chunk.
tr. Saranac.
tr. Seneca.
tr. Tuscarora.
tr. Wilkesbarre.

ski, Jacob, Milwaukee, Wis.
chr. Elida.

ne Transportation Co., C. D. Bradley, Mgr., Rogers
Mich.
tr. White, W. F.

T. T., 1109 W. Huron St., Chicago, Ill.
chr. Mead, J. H.

one, William, Detroit, Mich.
chigan Navigation Co.
tr. Livingstone.

Valter S., Duluth, Minn.
rtage Lake Steamship Co.
tr. Columbia.
tr. Plow Boy.

No. 222 **Lockhart, D. O.**, Sandusky, Ohio.
Str. Snook, T. W.

No. 223 **Lord, C. H.**, Trenton, Mich.
Bge. Sweetheart.

No. 224 **Lozen, J. B.**, New Baltimore, Mich.
Bge. Lozen, J. B.

No. 225 **Lutz-Oliver & Co.**, Michigan City, Ind.
Str. Parks, O. E.

No. 226 **MacKay-Hall Steamship Co., Ltd., T. E. Hall, Mgr.**, Montreal, Can.
Str. Compton.
Str. Rhodes, R. R.
Str. Stanstead.
Str. Whitaker, Byron.

No. 227 **Mackenzie-Manna Co., Ltd.**, Toronto, Ont.
Str. Dalhousie City.

No. 228 **MacKinnon & Scott**, Menominee, Mich.
Bge. Wisconsin.

No. 229 **Marks & Co., Thomas**, Dominion Bank Bldg., Toronto, Ont.
Canadian Northwest Steamship Co., Ltd.
Str. Atikokan.
Str. Graham, Geo. A.
Str. Neebing.
Str. Paipoonge.

No. 230 **Marquette & Bessemer Dock & Navigation Co., A. Leslie, Mgr.**, Walkerville, Ont.
Str. Marquette & Bessemer No. 2.

No. 231 **McCarthy, Jerry**, Ohio Street, Buffalo, N. Y.
Bge. Holland, Grace.

No. 232 **McCauley, T.**, Escanaba, Mich.
Str. Clarke, Alfred.

No. 233 **McClellan & Co.**, Bowmanville, Ont.
Bge. Mowatt, Oliver.

No. 234 **McCullough, William**, Port Huron, Mich.
Bge. Coates, L. B.

No. 235 **McDougall, Neil,** Marksville, Ont.
Str. Michipicoten.

No. 236 **McGibbon & Sons, F.,** Sarnia, Ont.
Bge. Cataract.

No. 237 **McLachlan, Colin,** Port Huron, Mich.
McLachlan Transportation Co.
Str. Bielman, C. F.
Bge. McLachlan, Mary E.

No. 238 **McLouth, S. C.,** Marine City, Mich.
Str. Mentor.
Str. Prentice, J. H.
Str. Scranton.
Bge. Knapp, F. M.
Bge. Uranus.

River Transit Co.
Str. Hazard, W. A.

No. 239 **McMann, R. H.,** Sarnia, Ont.
Schr. Sephie.

No. 240 **McMillan, M. B.,** Dime Bank Bldg., Detroit, Mich.

American Steamship Co.
Str. Dimmick, J. K.

National Steamship Co.
Str. Bixby, W. K.

No. 241 **McMillan, P. H.,** Union Trust Bldg., Detroit, Mich.
Michigan Steamship Co.
Str. Colonel.

Wolverine Steamship Co.
Str. Senator.

No. 242 **McMorran, Henry,** Port Huron, Mich.
Str. Linden.

Pawnee Boat Co.
Str. Pawnee.
Bge. Edwards, J. R.
Bge. Orton, M. E.

Port Huron & Sarnia Ferry Co.
Str. Beard, James.
Str. Conger, O. D.

Str. Dormer, Grace.
Str. Hiawatha.

No. 243 McSherry, P. J., Toronto, Ont.
Str. Ongiara.

No. 244 Mathews Steamship Co., Ltd., J. T. Mathews, Managing Director, Board of Trade Bldg., Toronto, Ont.
Str. Easton.
Str. Edmonton.
Str. Malton.
Str. Masaba.
Str. Steelton.
Str. Yorkton.

No. 245 Mehl, Edward, Scott Block, Erie, Pa.
Wainwright Steamship Co.
Str. Wainwright.

No. 246 Midland Towing & Wrecking Co., Ltd., Midland, Ont.
Str. Gargantua.
Str. Reliance.

No. 247 Midland Transportation Co., Ltd., E. F. Burke, Mgr., Midland, Ont.
Str. Chamberlin, C. W.
Bge. Aloha.

No. 248 Miller J. C., Parry Sound, Ont.
Bge. Corisande.

No. 249 Miller, J. B., Mgr., Traders' Bank Bldg., Toronto, Ont.
Parry Sound Transportation Co.
Str. Seguin.

No. 250 Mills, David W., 1886 Carter Rd., Cleveland, Ohio.
Port Huron Navigation Co.
Str. Mills, David W.

No. 251 Milwaukee Sand & Gravel Co., Milwaukee, Wis.
Str. Ellen.

No. 252 Milwaukee Steamship Co., Milwaukee, Wis.
Str. Flower, R. P.

No. 253 Milwaukee Western Fuel Co., Milwaukee, Wis.
Bge. Transfer.
Bge. Transport.

No. 254 **Mitchell, John, Mgr.,** Rockefeller Bldg., Cleveland, Ohio.

Gratwick, S. S. Co.
Str. McWilliams, John J.

Buffalo Steamship Co.
Str. Agnew, William C.
Str. Clement, Stephen M.
Str. Kennedy, Hugh.

Cleveland Steamship Co.
Str. Albright, John J.
Str. Clarke, E. A. S.
Str. Cuddy, Loftus.
Str. Dustin, A. C.
Str. Gratwick, William H.
Str. Hanna, M. A.
Str. Holden, Henderick S.
Str. Lagonda.
Str. Reis, William E.
Str. Scranton, Walter.
Str. Sellwood, Joseph.
Str. Taylor, Moses.
Str. White, Pendennis.

No. 255 **Montreal Transportation Co., L. L. Henderson, Mgr.,** 14 Place Royal, Montreal, Canada.
Str. Advance.
Str. Fairmount.
Str. Glenmount.
Str. India.
Str. Kinmount.
Str. Northmount.
Str. Rosemount.
Str. Simla.
Str. Storemount.
Str. Westmount.
Str. Windsor.
Bge. Augustus.
Bge. Brighton.
Bge. Burma.
Bge. Cobourg.
Bge. Condor.
Bge. Coteau.
Bge. Davie, G. T.

Bge. Dakota.
Bge. Dorchester.
Bge. Dunmore.
Bge. Ethel.
Bge. Gaskin, John.
Bge. Hamilton.
Bge. Hector.
Bge. Hilda.
Bge. Hiawatha.
Bge. Kildonan.
Bge. Kingston.
Bge. Lapwing.
Bge. Mamie.
Bge. Melrose.
Bge. Montreal.
Bge. Muskoka.
Bge. Nadine.
Bge. Quebec.
Bge. Selkirk.
Bge. Thrush.
Bge. Ungava.
Bge. Valencia.
Bge. Winnipeg.

No. 256 **Montreal & Cornwall Navigation Co., Ltd.**, Cornwall, Ont.
Str. Brittanic.

No. 257 **Morden, George H.**, Oakville, Ont.
Bge. New Dominion.

No. 258 **Morden Transportation Co.**, Midland, Ont.
Str. United Lumberman.
Bge. Jennette.

No. 259 **Morton Salt Co., Robt. K. Warren, Supt.**, Railway Exchange Bldg., Chicago, Ill.
Str. Marion.
Str. Normandie.
Str. Oades, John.

No. 260 **Moore Steamship Co.**, Leader-News Bldg., Cleveland, Ohio.
Str. Moore, J. W.

No. 261 **Mullen Coal Co.**, Amherstburg, Ont.
Str. Alaska.

Str. Otis, John.
Str. Shores, E. A., Jr.

No. 262 Murphy, James, Ft. William, Ont.
Western Navigation Co.
Str. Kaministiquia.

No. 263 Mutual Transit Co., W. E. Lloyd, Supt., Buffalo, N. Y.
Str. Huron.
Str. Minneapolis.
Str. North Lake.
Str. North Sea.
Str. North Star.
Str. North Wind.
Str. Northern King.
Str. Northern Light.
Str. Northern Queen.
Str. Northern Wave.
Str. Rhodes, William C.
Str. St. Paul.

No. 265 Neff, Charles S., 2109 Grand Ave., Milwaukee, Wis.
Str. Eddy, C. A.
Str. Neff, Charles S.
Str. Venezuela.

No. 266 Nessen Lumber Co., J. O., Peoples Gas Bldg., Chicago, Ill.
Str. Fletcher, F. W.
Str. Neff, S. O.
Str. Nessen, N. J.
Str. Peters.

No. 267 Niagara Navigation Co., Ltd., Toronto, Ont.
Str. Cayuga.
Str. Chicora.
Str. Chippewa.
Str. Corona.
Str. Macassa.
Str. Modjeska.
Str. Turbinia.

No. 268 Niagara, St. Catharines & Toronto Navigation Co., Ltd., Toronto, Ont.
Str. Garden City.

No. 269 **Nipigon Transit Co.**, Port Huron, Mich.
Str. Ford, J. C.

No. 270 **Northern Lakes Transportation Co., C. W. Bryson, Mgr.**, Leader-News Bldg., Cleveland, Ohio.

Northern Lakes S. S. Co.
Str. Champlain.
Str. Ontario.
Str. St. Clair.

No. 271 **Northern Michigan Trans. Co.**, Chicago, Ill.
Str. Illinois.
Str. Kansas.
Str. Manitou.
Str. Minnesota.
Str. Missouri.
Str. Sterling, J. R.
Str. Wisconsin.

No. 272 **Northern Steamship Co.**, Buffalo, N. Y.
Str. North Land.
Str. North West.

No. 273 **O'Brien, Patrick**, Cleveland, Ohio.
Bge. Unadilla.

No. 274 **O'Connor, James**, Tonawanda, N. Y.
Bge. Stanley, H. M.

No. 275 **Oakes, Herbert K., Mgr.**, Rockefeller Bldg., Cleveland, O.

Cadillac Steamship Co.
Str. Booth, Edwin L.
Str. Western Star.

Franklin Steamship Co.
Str. Berry, B. F.
Str. Earling, E. J.
Str. Utley, E. H.

No. 276 **Ogdensburg Coal & Towing Co.**, Ogdensburg, N. Y.
Str. Avon.
Str. McVittie, Alex.
Str. Nicaragua.
Bge. Carney, Fred.
Bge. Hoboken.
Bge. Menominee.

Bge. Stephenson, Isaac.
Bge. Twin Sisters.
Bge. Witbeck, Henry.

No. 277 **Olds, M. D.,** Cheboygan, Mich.
Fairport Trans. Co.
Str. Schoolcraft.

No. 278 **Oliver, James,** Kingston, Ont.
Bge. Andrews, Abbie L.

No. 279 **Omega Transportation Co.,** 15 Atwater Street, Detroit, Mich.
Str. Omega.

No. 280 **Ontario & Ohio Navigation Co.,** Cleveland, Ohio.
Str. Forest City.

No. 281 **Ottawa Transportation Co., Ltd.,** Ottawa, Canada.
Str. Glen Allen.
Str. Hall.
Str. Scotchman.

No. 282 **Paragon Refining Co.,** Toledo, O.
Petrol Traffic Co.
Str. Viking.
Bge. Mitchell, F. W.

No. 283 **Patterson, J. T.,** Kingston, Ont.
Schr. St. Louis.

No. 284 **Pauly, H. J.,** Wells & 3rd Streets, Milwaukee, Wis.
Str. Davidson, Thomas.
Bge. Baltic.

No. 285 **Peacock, J. H.,** Port Hope, Ont.
Bge. Arthur.

No. 286 **Pelee Island Sand & Gravel Co.,** 1800 Scranton Road, Cleveland, Ohio.
Str. Stafford, W. R.

No. 287 **Peninsular Steamboat Co.,** Sandusky, Ohio.
Str. Lakeside.

No. 288 **Peninsula Tug & Towing Co., Ltd.,** Wiarton, Ont.
Str. Warren, Homer.
Bge. Sands, Isabella.

Bge. Herschel.
Bge. White & Friant.
Tug Crawford.
Tug Ella.

No. 289 **Pennsylvania & Ontario Trans. Co.**, Rockefeller Bldg., Cleveland, Ohio.
Str. Ashtabula.

No. 290 **Pennsylvania Steamship Co.**, Caswell Block, Milwaukee, Wis.
Str. Wolf, W. H. (old)

No. 291 **Pentland Steamship Co., F. L. Leckie, Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Str. Pentland.

No. 292 **Peoples Milling Co.**, Chaumont, N. Y.
Bge. Acacia.

No. 293 **Perks Brothers**, Meaford, Ont.
Str. City of Meaford.

No. 294 **Pere Marquette S. S. Co., W. L. Mercerean, Supt.**, Ludington, Michigan.
Str. Pere Marquette.
Str. Pere Marquette No. 14.
Str. Pere Marquette No. 16.
Str. Pere Marquette No. 17.
Str. Pere Marquette No. 18.
Str. Pere Marquette No. 19.
Str. Pere Marquette No. 20.

No. 295 **Peterson, Frank J.**, 26 W. 4th Street, Oswego, N. Y.
Str. Collinge.
Str. St. Joseph.

No. 296 **Pickands, Mather & Company, Mgrs.**, Western Reserve Bldg., Cleveland, Ohio.

The Interlake Steamship Co.
Str. Adriatic.
Str. Ames, Ward.
Str. Arcturus.
Str. Bope, H. P.
Str. Calumet.
Str. Canopus.

tr. Cepheus.
tr. Cetus.
tr. Corvus.
tr. Crete.
tr. Cygnus.
tr. Elba.
tr. Hemlock.
tr. Hoyt, J. H.
tr. Indus.
tr. Jupiter.
tr. Kerr, D. G.
tr. Lupus.
tr. Mather, Samuel.
tr. Mills, D. O.
tr. Morse, J. C.
tr. Neptune.
tr. Odanah.
tr. Pathfinder.
tr. Perseus.
tr. Reed, J. H.
tr. Sherwin, John.
tr. Sirius.
tr. Stone, Amasa.
tr. Taurus.
tr. Verona.
tr. Venus.
tr. Victory.
tr. Wallace, J. C.
tr. Wolvin, A. B.
ge. Constitution.
ge. Saganore.

William E., Bay City, Mich.
tr. Ogemaw.
ge. Filmore, C. J.

& McDougall, Alpena, Mich.
tr. Gogebic.

gh Steamship Co., Rockefeller Bldg., Cleveland,

tr. Baker, Geo. F.
tr. Bessemer, Sir Henry.

Str. Black, Clarence A.
Str. Buffington, Eugene J.
Str. Bunsen, R. W. E.
Str. Cole, Thomas F.
Str. Colgate, James B.
Str. Coralia.
Str. Corey, William E.
Str. Cornell.
Str. Cort, Henry.
Str. Crawford, George G.
Str. Crescent City.
Str. Dickson, William B.
Str. Dinkey, Alva C.
Str. Eads, James B.
Str. Edenborn, William.
Str. Ellwood, Isaac L.
Str. Empire City.
Str. Ericsson, John.
Str. Fairbairn, Sir William.
Str. Farrell, James A.
Str. Filbert, William J.
Str. Frick, Henry C.
Str. Fulton, Robert.
Str. Gary, Elbert H.
Str. Gates, John W.
Str. German.
Str. Harvard.
Str. Hill, James J.
Str. Houghton, Douglas.
Str. House, Francis E.
Str. Linn, William R.
Str. Lynch, Thomas.
Str. McDougall, Alexander.
Str. Malietoa.
Str. Manola.
Str. Maricopa.
Str. Mariposa.
Str. Maritana.
Str. Mataafa.
Str. Mather, Samuel.
Str. Maunaloa.
Str. Morgan, J. Pierpont.

Morgan, Jr., J. Pierpont.
Morse, Samuel F. B.
Murphy, Simon J.
Neilson, James B.
Olcott, William J.
Palmer, William P.
Perkins, George W.
Phipps, Henry.
Poe, General Orlando M.
Princeton.
Queen City.
Ream, Norman B.
Rensselaer.
Roberts, Percival, Jr.
Rockefeller, Frank.
Rogers, H. H.
Roman.
Saxon.
Schiller, William B.
Shaw, Howard L.
Siemens, Sir William.
Stephenson, George.
Superior.
Superior City.
Trimble, Richard.
Van Hise, Charles R.
Watt, James.
Widner, Peter A. B.
Zenith City.
. Bell, Sir Isaac Lothian.
. Bryn Mawr.
. Carrington.
. Corliss, George H.
. Fritz, John.
. Holley, Alexander.
. Jenney, W. LeBaron.
. Krupp, Alfred.
. Magna.
. Maia.
. Maida.
. Manda.
. Manila.

Bge. Marcia.
Bge. Marsala.
Bge. Martha.
Bge. Nasymith, Jas.
Bge. Roebling, John A.
Bge. Smeaton, John.
Bge. Thomas, Sidney G.
Bge. No. 137.

No. 300 **Pittsburgh & Erie Coal Co.**, Erie, Pa.
Str. Armour, P. D.
Str. Fitzgerald, R. P.

No. 301 **Playfair, James, Mgr.**, Midland, Ont.
Great Lakes Transportation Co., Ltd.
Str. Glenfinnan.
Str. Glenshee.
Str. Glenyon.
Str. Glenlivet.

No. 302 **Plunkett, George**, Cobourg, Ont.
Rogers Transportation Corp.
Str. Packer, H. E.
Bge. Kitchen, J. B.
Bge. Marshall, Charlie.

No. 303 **Point Ann Quarries, Ltd., J. F. M. Stewart, Mgr.**, McKinnon Bldg., Toronto, Ont.
Str. Lake Michigan.
Str. Rolph, John.
Bge. Antelope.
Bge. Dobbins, D. P.
Bge. Minch, Sophia.
Bge. Moran, David.
Bge. Muir, A.
Bge. Sligo.

No. 304 **Potter-Teare Transit Co.**, Carter Rd. S. W., Cleveland, Ohio.
Str. McGregor, Mary A.

No. 305 **Prindiville & Sons, John**, Insurance Exchange, Chicago, Ill.
Str. Yale.

No. 306 **Prescott & Odgensburg Ferry Co., Ltd.,** Prescott, Ont.
Str. Miss Vandenberg.

No. 307 **Pringle Barge Line Co.,** Rockefeller Bldg., Cleveland, O.
Tug Osborne, Chase S.
Bge. Barlum, J. J.
Bge. Golden Age.
Bge. Tokio.
Bge. Iron Cliff.

No. 308 **Port Colborne & St. Lawrence Nav. Co., Ltd.,** Toronto, Ont.
Str. Algonquin.

No. 309 **Port Huron & Duluth Steamship Co.,** Port Huron, Mich.
Str. Lakeland.
Str. Lakeport.
Str. Lakewood.

No. 310 **Post Fish Co.,** Sandusky, O.
Str. City of Dresdon.

No. 311 **Quebec Trans. & Forwarding Co., Ltd.,** Quebec, Que.
Str. Florence.
Str. Hackett, J. H
Str. Hackett, M. A.
Bge. A-D.
Bge. Ewen, F. D.
Bge. Gladys, H.
Bge. Katie H.
Bge. Klondyke.
Bge. Zapotec.

No. 312 **Quebec & Pt. Levis Ferry Co., Ltd.,** Quebec, Que.
Str. Shaw, Chas. H.

No. 313 **Rainey River Navigation Co., Ltd.,** Kenora, Ont.
Str. Agwinde.
Str. Keenora.
Str. Keewatin.

No. 314 **Rathbun, C. J., Mgr.,** 617 Cass Ave., Detroit, Mich.
Str. Wente, R. C.
Bge. Exile.

No. 315 **Recor & Smith,** St. Clair, Mich.
Schr. Holmes, J. A.

No. 316 **Reibolt-Wolter Co.**, Sturgeon Bay, Wis.
Str. Tempest, No. 1.
Bge. One.

No. 317 **Reid Towing & Wrecking Co., Ltd.**, Sarnia, Ont.
Str. Inland.
Str. Manistique.
Str. Matoa.
Bge. Buffalo.
Bge. Hanscombe, Belle.
Bge. Kelderhouse, John.
Bge. Magnetic.

Spokane Steamship Co.
Str. Ketchum, J. B. 2nd.
Str. Spokane.

No. 319 **Rend & Co., W. P.**, 115 Dearborn St., Chicago, Ill.
Str. Rend, W. P.

No. 320 **Reynolds, J. E.**, 514 Ontario St., Port Huron, Mich.
Str. Huron City.

No. 321 **Richardson & Sons, James, Ltd.**, Kingston, Ont.
Str. Calgary.
Str. Glenfoyle.
Str. Glenmavis.
Str. Navajo.
Str. Toiler.
Bge. Ford River.

No. 322 **Richardson & Co., W. C.**, 816 Leader-News Bldg., Cleveland, Ohio.
Str. Wade, J. H.

Ashtabula Steamship Co.
Str. Normania.

Hanna Transit Co.
Str. Hanna, Howard M., Jr.

Hubbard Steamship Co.
Str. Hubbard, C. Russell.

Jackson Transit Co.
Str. Mitchell, Samuel.
Bge. Chicamauga.

Miller Transit Co.
Str. Miller, Leonard B.
Norton Transit Co.
Str. Norton, David Z.
Richardson Transportation Co.
Str. Roumania.

No. 323 **Rideau Lakes Navigation Co., Ltd.**, Kingston, Ont.
Str. Rideau King.
Str. Rideau Queen.

No. 324 **River Rouge Sand Co.**, Grummond Bldg., Detroit, Mich.
Str. Gowan, A. Y.
Str. Boyce, I. J.

No. 325 **Rixon, Ainslie, Stoddard Co., Ltd.**, Owen Sound, Ont.
Bge. Buckhout, B. B.

No. 326 **Roe Brothers**, Harbor Springs, Mich.
Str. Columbia.

No. 327 **Rondeau, Treffle**, Lanoraie, Que.
Schr. Dunn, S. H.

No. 328 **Rondeau, Alexis**, Lanoraie, Que.
Bge. Warmington, G. H.

No. 329 **Roper Lbr. & Cedar Co.**, Menominee, Mich.
Schr. Cook, Mary Ellen.

No. 330 **Rutherford, William**, Montreal, Que.
Str. Ida E.

No. 331 **Rutland Transit Co., C. W. Kelly Supt.**, Ogdensburg, N. Y.
Str. Averill, W. J.
Str. Bennington.
Str. Burlington.
Str. Haskill, W. H.
Str. Ogdensburg.
Str. Rutland.

No. 332 **Saginaw Bay Transportation Co.**, Cleveland, Ohio.
Bge. Bottsford R.

No. 333 **Salmon & Co., Hamilton H., F. T. Sullivan, Mgr.**, 71 South St., Buffalo, N. Y.
Str. Kongo.

No. 334 **Sands, Salt & Lumber Co., Louis,** Manistee, Mich.
Str. Marshall, Maggie.
Str. Wotan.

No. 335 **Sanderson, Charles, J.,** Milwaukee, Wis.
Schr. Simpson, Lucia A.

No. 336 **Sanford, James,** Sandusky, Ohio.
Str. Stephenson, S. M.

No. 337 **Sandusky & Islands Steamboat Co.,** Sandusky, O.
Str. Arrow.

No. 338 **Schlosser, Win,** Milwaukee, Wis.
Str. Cream City.
Schr. Boyce, G. J.
Schr. City of Cheboygan.
Schr. Hossack, W. D.
Schr. Stafford.

No. 339 **Schnorbach-Greeling Co.,** Muskegon, Mich.
Str. Third Michigan.

No. 340 **Scott, William,** Wallaceburg, Ont.
Str. Brittain, R. C.

No. 341 **Scott, W. G.,** Port Huron, Mich.
Bge. Casey, Lyman.

No. 342 **Sellwood, R. M.,** Sellwood Bldg., Duluth, Minn.
Masaba Steamship Co.
Str. Morrow, Joe S.

No. 343 **Sharp, William H.,** Bay City, Mich.
Str. Donaldson, J. P.
Str. King, George.
Bge. Dayton.
Bge. Ketchum, J. L.
Bge. Wright, A. W.

No. 344 **Shaw, Howard L., Mgr.,** Bay City, Mich.
Lake Transit Co.
Str. City of Bangor.
Str. Penobscot.
Str. Pope, E. C.
Milinokett Steamship Co.
Str. Milinokett.

No. 345 **Sheehan, James,** Detroit, Mich.
Str. Green, C. H.
Bge. Our Son.

No. 346 **Shenango Steamship Co.,** Rockefeller Bldg., Cleveland, Ohio.
Shenango Steamship Co.
Str. Snyder, W. P.
Str. Wilpen.
Shenango Steamship & Transportation Co.
Str. Shenango.
Str. Schoonmaker, Colonel J. M.
Str. Snyder, W. P., Jr.

No. 347 **Sincinnes-McNaughton Line,** Montreal, Canada.
Str. Glengarry.
Str. International.

No. 348 **Skang, A. M.,** Escanaba, Mich.
Bge. Kewaunee.

No. 349 **Smith, W.,** Belleville, Ont.
Schr. Dundee.

No. 350 **Snook, John R.,** Mt. Clemens, Mich.
Str. Atlantis.

No. 351 **Solman, Lawrence,** Toronto, Ont.
Str. Clark Brothers.
Str. Hanlan, John.
Str. Mazeppa.

No. 352 **South Side Lumber Co.,** 22nd St. and Ashland Ave., Chicago, Ill.
Str. Sawyer, Philetus.

No. 353 **Sowards, John F.,** Kingston, Ont.
Str. Sowards.
Bge. Maize.

No. 354 **St. Joe Island & Sault Line, Ltd.,** Sault Ste. Marie, Ont.
Str. City of Chatham.

No. 355 **Standard Fuel Co.,** Toronto, Ont.
Str. Veronica.

No. 356 **St. Joseph & Chicago S. S. Co.**, St. Joseph, Mich.
Str. Hart, Eugene C.
Str. Eastland.

No. 357 **St. Lawrence & Chicago Steam Nav. Co., Ltd., A. A. Wright, Managing Director**, 600 Board of Trade Bldg., Toronto, Ont.
Str. Crowe, G. R.
Str. Iroquois.
Str. Matthews, W. D.
Str. Osler, E. B.
Str. Hagarty, J. H. G.

No. 358 **St. Lawrence River Steamboat Co.**, Kingston, Ont.
Str. Bain, Jessie.

No. 359 **Star-Cole Line, John Stevenson, Mgr.**, Detroit, Mich.
Str. Huron.
Str. Idlewild.

No. 360 **Stearns Salt & Lumber Co.**, Ludington, Mich.
Str. Butters, M. F.

No. 361 **Steinbrenner, Geo. M., Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Nicholas Transit Co.
Str. Onoko.

No. 362 **Steinbrenner, Henry, Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Kinsman Transit Co.
Str. Andrews, Matthew.
Str. Minch, Anna C.
Str. Minch, Phillip.
Str. Steinbrenner, Henry.

No. 363 **Stephenson Co., Isaac**, Wells Delta Co., Mich.
Str. Stephenson, I. W.
Schr. Resumption.

No. 364 **Stobo, Wm. Q.**, Quebec, Que.
Str. Iowa.

No. 365 **Sturgeon Bay Stone & Trans. Co.**, Sawyer, Wis.
Str. Foster, I. N.
Bge. Corning, Ida.

Bge. Empire State.
Bge. Oak Leaf.
Bge. Mott, Richard.

No. 366 **Sullivan & Co., D., Mgrs.,** Continental Commercial Bank Bldg., Chicago, Ill.

Edgewater Steamship Co.
Str. Merida.

Chicago Navigation Co.
Str. Dunham, J. S.
Str. Fitzgerald, W. E.

Christopher Steamship Co.
Str. Christopher.

Detroit Steamship Co.
Str. Kotcher, C. W.

Gartland Steamship Co.
Str. Wolf, William H.

Great Lakes & St. Lawrence Trans. Co.
Str. Crerar, John.
Str. Dalton, H. G.
Str. Davidson, A. D.
Str. Howe, Geo. C.
Str. Keefe, J. S.
Str. Lambert, John.
Str. Marshall, A. M.
Str. Parent, S. N.
Str. Wallace, Robert.

No. 367 **Superior Sand & Gravel Co.,** Detroit, Mich.
Str. Osborn, Frank C.

No. 368 **Taylor & Cousins,** Belleville, Ont.
Schr. Newlands, J. B.

No. 369 **Thompson, I. & A.,** Port Arthur, Ont.

Lake Coast Trading Co., Ltd.
Str. Niagara.
Str. Van Allen, D. R.

No. 370 **Thompson, R. P.,** Port Huron, Mich.
Bge. Atmosphere.

No. 371 **Thompson, W. F.,** Duluth, Minn.
Str. Neff, M. C.

No. 372 **Trotter, F. J.,** Amherstburg, Ont.
Str. Mills, J. E.
Tug Marion E. Trotter.

No. 373 **Tomlinson, G. A., Mgr.,** Duluth, Minn.

Continental Steamship Co.
Str. Congdon, C. A.
Str. Goulder, H. D.

Duluth Steamship Co.
Str. Philbin, D. M.
Str. Sonoma.
Str. Sultana.

Globe Steamship Co.
Str. Adams, Cuyler.
Str. Ball, F. C.
Str. Ball Brothers.

Inter-Ocean Steamship Co.
Str. Davidson, J. E.
Str. Sierra.

Mutual Steamship Co.
Str. Berwind, Harry A.
Str. Hartwell, Fred G.
Str. Livingstone, William

National Steamship Co.
Str. Hart, F. W.
Str. Watson, C. W.

Peavey Steamship Co.
Str. Heffelfinger, Frank T
Str. Peavey, Frank H.
Str. Peavey, Geo. H.
Str. Wells, Frederick B.

Superior Steamship Co.
Str. Barnum, G. G.
Str. Sonora.
Str. Sinaloa.

Triton Steamship Co.
Str. Ranney, R. P.

Zenith Steamship Co.
Str. Hoover & Mason.
Str. Saxona.
Str. Yosemite

No. 374 **Tonawanda Iron & Steel Co.**, N. Tonawanda, N. Y.
Str. City of Naples.
Str. Fleetwood.
Str. Oceanica.
Bge. Eddy, John F.

No. 375 **Toronto Ferry Co.**, Toronto, Ont.
Str. Bluebell.
Str. Island Queen.
Str. Luella.
Str. Mayflower.
Str. Primrose.
Str. Trillium.

No. 376 **Tracey, H. E. N.**, Marine City, Mich.
Bge. Corry, Mike.

No. 377 **United Fuel & Supply Co.**, Detroit, Mich.
Str. Heiden, Charles.
Str. Little, C. H.
Str. Sachem.
Str. McKerchey, J. M.

No. 378 **Vance & Joys Co., Mgrs.**, Mitchell Bldg., Milwaukee, Wis.
Dakota Transit Co.
Str. Maryland.
Milwaukee-Western Steamship Co.
Str. Manchester.
Wisconsin Steamship Co.
Str. Schlesinger, Ferdinand.

No. 379 **Van Dusen, T. L.**, Picton, Ont.
Schr. Calkins, Bertie.

No. 380 **Viau, Antone**, Cornwall, Ont.
Str. City of Toronto.

No. 381 **Victoria Navigation Co., Ltd.**, Ottawa, Que.
Str. Victoria.

No. 382 **Volunteer Transit Co., Archie Thompson, Mgr.**, 948 Rockefeller Bldg., Cleveland, Ohio.
Str. Beatty, Charles.

No. 383 **Wabash Railroad Co.**, Detroit, Mich.
Str. Detroit.

Str. Transfer.
Str. Transport.

No. 384 **Waffle, T. J. & W. J.**, Kingston, Ont.
Str. Waffle, T. J.

No. 385 **Waldo, L. C., Mgr.**, 15 Atwater St., Detroit, Mich.
N-W Transportation Co.
Str. Brown, H. H.
Str. Kirby, S. R.
Bge. Hartnell, Geo. E.

No. 386 **Walkerville & Detroit Ferry Co.**, Walkerville, Ont.
Str. Ariel.
Str. Essex.

No. 387 **Wallace & Cunningham**, Dearborn, Mich.
Dearborn Transit Co.
Str. Wallace, E. L.

No. 388 **Wedow, John F.**, Rockefeller Bldg., Cleveland, Ohio.
Bge. Troy.

No. 389 **Western Transit Co., E. T. Douglass, Mgr.**, Buffalo, N. Y.
Str. Boston.
Str. Buffalo.
Str. Chicago.
Str. Duluth.
Str. Milwaukee.
Str. Mohawk.
Str. Rochester.
Str. Superior.
Str. Troy.
Str. Utica.

No. 390 **Weston & Son, A.**, North Tonawanda, N. Y.
Str. Buell, F. R.
Bge. Stewart, A.

No. 391 **Whalen, James, Mgr.**, Port Arthur, Ont.
Str. St. Ignace.
Str. St. Marie.
Bge. Thunder Bay.

No. 392 **White-Gratwick & Mitchell Steamship Co.**, North Tonawanda, N. Y.
Str. Smith, Edward.

No. 393 **White Star Line,** Detroit, Mich.
Str. City of Toledo.
Str. Greyhound.
Str. Owana.
Str. Tashmoo.
Str. Wauketa.

No. 394 **White Transportation Co.,** Chicago & Mackinaw Sts., Buffalo, N. Y.
Str. Arizona.
Str. Runnells, H. E.
Bge. Scotia.

No. 395 **Wickwire Steel Co.,** Buffalo, N. Y.
Str. Niagara.

No. 396 **Willoughby, W. J.,** Windsor, Ont.
Str. Case.

No. 397 **Wilson Transit Co., Archie Thompson, Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Garretson, General.
Str. Hebbard, Charles.
Str. McIntosh, H. P.
Str. Osborne, A. W.
Str. Rees, W. D.
Str. Robbins, S. H.
Str. Upson, J. E.
Str. Wilson, Capt. Thomas.
Str. Yuma.

No. 398 **Wilson, Paterson Co.,** Board of Trade Bldg., Montreal, Canada.
Str. Senator Derbyshire.

Fairhaven Transportation Co., Ltd.
Str. Rock Ferry.

Lehigh Coal Co., Ltd.
Str. Canobie.

No. 399 **Wilson, W. H.,** Muskegon, Mich.
Str. Wilson, Mathew.

No. 400 **Williams, Roy A., Mgr.,** Rockefeller Bldg., Cleveland, O.
North American Steamship Co.
Str. America.

Str. Brazil.
Str. Byers, A. M.
Str. Reiss, John P.
Str. Reiss, Peter.

Alva Steamship Co.
Str. Bradley, M. A.

No. 401 **Windsor & Pelee Island S. S. Co., Ltd.**, Pelee Island, Ont.
Str. Pelee.

No. 402 **Wineman, Henry, Jr., Ford Bldg**, Detroit, Mich.
Str. City of Berlin.
Bge. Aurora.

Raleigh Steamship Co.
Str. Hutchinson, C. L.

No. 403 **Winnipeg Steamship Co.**, Winnipeg, Manitoba.
Str. Briton.
Str. Waldo, L. C.

No. 404 **Wisconsin Steel Co.**, Chicago, Ill.
Str. The Harvester.

No. 405 **Wyandotte Transportation Co.**, Detroit, Mich.
Str. Alpena.
Str. Huron.
Str. Wyandotte.

No. 406 **Wyman, Guy**, Painsville, Ohio.
Str. Edwards, Wm.

No. 407 **Zengerle, C. M., Mgr.**, 97 Alfred St., Detroit, Mich.
Shoal Water Transportation Co.
Str. Norwalk.

Present Names of Boats Whose Names Have Been Changed

From Green's Marine Directory

Str.	Adams, Cuyler	Nee	Sahara.
"	Advance	"	Sir I. L. Tilley.
"	Agassiz, R. L.	"	W. A. Hawgood.
"	Agnes W.	"	Roswell P. Flower.
"	Arcturus	"	James B. Wood.
"	Arizona	"	City of Racine.
Bge.	Arthur	"	D. P. Rhodes.
"	Arthur (Can.)	"	G. C. Trumpff.
Str.	Atikokan (Can.)	"	J. B. Trevor.
"	Auburn	"	Buffalo.
Bge.	Badger	"	Whaleback 110.
"	Baltic	"	Grace Grummond.
"	Batavia	"	Whaleback 126.
"	Bath	"	Sir Joseph Whitworth (Whaleback).
Str.	Barnum, G. G.	"	Socapa.
Bge.	Baroness	"	Whaleback 126.
Str.	Barth, L. L.	"	S. S. Wilhelm.
"	Battle, Mary (Can.)	"	Lillie Smith.
"	Bay City	"	Colgate Hoyt (Whaleback).
"	Bay Port	"	E. B. Bartlett (Whaleback).
"	Bay State	"	J. L. Colby (Whaleback).
"	Bay View	"	A. D. Thompson (Whaleback).
"	Bawating (Can.)	"	Fortune.
"	Beaupre (Can.)	"	Montreal.
"	Beaver	"	Oval Agitator.
"	Belleville (Can.)	"	Spartan.
Bge.	Berkshire	"	John Scott Russell (Whaleback).
"	Berwyn	"	Capt. G. W. Naughton.
Str.	Bethlehem	"	E. P. Wilbur.
"	Bickerdike (Can.)	"	Arabia.
"	Binghamton	"	H. J. Jewett.
"	Block, Joseph	"	Arthur Hawgood.
Bge.	Bloom, Nelson	"	Meteor.
"	Bombay	"	Whaleback 107.
Str.	Booth, Edwin L.	"	D. M. Whitney.
"	Bothnia (Can.)	"	Jack.
"	Boucherville (Can.)	"	Hochelago.
Bge.	Boyce, Jessie L.	"	Milan.
"	Brake, William	"	S. Gardner.
"	Brittania	"	Whaleback 116.
"	Briton (Can.)	"	S. & J. Collier.
Str.	Brittanic	"	Rocket.
"	Brownell, Geo. F.	"	Chemung.
"	Buel, F. R.	"	St. Louis.
Bge.	Buffalo	"	Brunette.
Str.	Burnham, Geo.	"	Flora Webster.
"	Business	"	Bessemer.
"	Cabotia (Can.)	"	Hiawatha.
"	Caledonia	"	W. B. Morley.

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Str.	Canada (Can.)	Nee	Queen City.
"	Canobie (Can.)	"	Iron King.
"	Canopus	"	Geo. H. Russell.
"	Carbray, Felix	"	John C. Gault.
"	Cardinal (Can.)	"	Mayflower.
"	Carolina	"	C. H. Hackley.
"	Case	"	J. C. Lockwood.
"	Caspian (Can.)	"	Passport.
"	Cepheus	"	F. W. Gilchrist.
"	Cetus	"	Henry S. Sill.
Bge.	Cassie	"	Whaleback 201.
Str.	Cataract (Can.)	"	Myles.
"	Chicoutimi (Can.)	"	Sanquenay.
"	Chippewa	"	U. S. R. C. Fessendon.
"	Chamberlin, C. W. (Can.)	"	C. N. Pratt.
"	City of Cheboygan	"	Duluth.
"	City of Green Bay	"	M. C. Hawley.
"	City of Hamilton (Can.)	"	Japan.
"	City of London (Can.)	"	Kathleen.
"	City of Meaford (Can.)	"	Seamon.
"	City of Montreal (Can.)	"	China.
"	City of Ottawa (Can.)	"	India.
"	City of St. Ignace	"	City of Cleveland.
"	City of the Straits	"	City of Detroit.
"	City of Windsor (Can.)	"	E. K. Roberts.
"	Clarke, E. A. S.	"	H. C. Frick.
"	Clark, Alfred	"	Saugatuck.
Bge.	Cobalt (Can.)	"	E. P. Beal's.
Str.	Collinge	"	Cumberland.
"	Compton (Can.)	"	Eastwood & Massachusetts.
"	Congdon, Chester A.	"	Salt Lake City.
"	Conger Coal (Can.)	"	A. Weston.
"	Cornwall (Can.)	"	Algerian.
"	Corona	"	Cibola.
"	Corvus	"	J. L. Weeks.
"	Conestogo	"	Susquehanna.
"	Cooke, Delos W.	"	Starruca.
Bge.	Corry, Mike	"	J. O. Thayer.
Str.	Cort, Henry	"	Pillsbury.
"	Columbia	"	Mascotte.
"	Crawford, Geo. G.	"	LeGrand S. DeGraff.
"	Cream City	"	Rhoda Emily.
"	Crosby, E. G.	"	Naomi.
"	Cygnus	"	J. C. Gilchrist.
Bge.	Cyrenian (Can).	"	Prussia.
Str.	Doric (Can.)	"	Tadausac.
"	Duchess of York (Can.)	"	Prince of Wales.
"	Dundurn (Can.)	"	Pere Marquette No. 2.
Bge.	Dunn, S. H.	"	W. R. Taylor.
Str.	Eads, James B.	"	Globe.
"	Elva	"	Glad Tidings.
"	Emerald (Can.)	"	Garnet.
"	Emerald	"	D. W. Powers.
"	Empress	"	Peerless.
"	Empress of Ft. William (Can.)	"	Mt. Stephen.
"	*Fairfax (Can.)*	"	Ionia.

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Str.	Faustin	"	E. H. Jenks.
"	Filbert, Wm. J.	"	William M. Mills.
"	Fleetwood	"	W. H. Gratwick.
"	Flora	"	Uranus.
"	Follette, James W.	"	J. H. Farwell.
"	Forest City (Can.)	"	King Edward.
"	Franz, W. C. (Can.)	"	Uranus.
"	Fremont	"	May Graham.
Bge.	Freeport	"	Black Diamond.
Str.	Gargantua (Can.)	"	D. C. Whitney.
"	Georgia	"	City of Ludington.
"	Glenfinnan (Can.)	"	Minnetonka.
"	Glengary (Can.)	"	Argyle.
"	Glenlivet (Can.)	"	Wawatam.
"	Glenshee (Can.)	"	Howard M. Hanna, Jr.
"	Glenyon (Can.)	"	Minnekahta.
"	Graham, Geo. A.	"	Marina.
"	Grimsby (Can.)	"	Empress of India and Argyle.
"	Hall, Charles B.	"	Delaware.
"	Hall, Henry B.	"	Iron Duke.
"	Hamilton (Can.)	"	Magnet.
"	Hand, C. C.	"	R. E. Schuck.
"	Harlow	"	Preston.
Bge.	Harriet D. (Can.)	"	Eleanor.
Str.	Hart, Harriet C.	"	City of Louisville.
"	Harvey, F. E.	"	John Roberts.
"	Havey, Hugh R.	"	J. C. Pringle.
"	Hazard, W. A.	"	John Schroeder.
"	Helen C.	"	F. E. Spinner, Quebec.
"	Hennepin	"	Geo. H. Dyer.
"	Hettler, H. H.	"	Walter Vail.
"	Hill, Charles B.	"	Delaware.
"	Hill, Flora M.	"	U. S. Revenue Cutter Dahlia.
"	Hines, L. Edward	"	Santa Maria.
"	Holcomb, Ralph T. (Can.)	"	Isaac Lincoln.
"	Holland	"	City of Milwaukee.
Bge.	Hossack, W. D.	"	Bertha Barnes.
Str.	House, Francis E.	"	William B. Kerr.
"	Hubbard, C. Russell	"	H. A. Hawgood.
"	Huron	"	Dorius Cole.
Bge.	Hutt, Hattie	"	F. B. Stockbridge.
Str.	Idlewild	"	Grace McMillan.
"	Inland (Can.)	"	I. W. Nicholas.
"	Indus	"	Lake Shore.
"	Ionic (Can.)	"	Cuba.
Bge.	Iron City	"	D. E. Bailey.
Str.	Island Bell (Can.)	"	Island Wanderer.
"	Islander (Can.)	"	John Thorn.
Bge.	Ivie	"	Whaleback 127.
"	Jennie	"	Whaleback 111.
Str.	Jacob, C. W.	"	City of Paris.
"	Jex, H. N.	"	Frontenac.
"	Josephine	"	Eva S. Robinson.
"	Kansas	"	City of Charlevoix.
"	Kaministiquia (Can.)	"	Imperial.
"	*Keewatin (Can.)*	"	Maple Leaf.

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Str.	Kenosha	" Madagascar.
"	Kentucky	" Arundell.
"	King Edward (Can.)	" Montauk.
"	Kongo	" Meridan and Saginaw Valley.
"	Lakeport	" Boston.
"	Lakewood	" Syracuse.
"	Lakeland	" Cambria.
"	Langham	" Tom Adams.
"	Laurier, Sir Wilfrid (Can.)	" H. M. Hanna, Jr.
"	Leopold, N. F.	" W. R. Woodford.
"	Lewisten	" S. E. Peck.
Bge.	Lily E.	" Louise McDonald.
Str.	Lupus	" Gilchrist.
"	McCollough, J. G.	" S. C. Reynolds.
"	Major	" John Mitchell.
"	Malton	" E. M. Peck.
"	Manistee	" Alice Stafford.
"	Marshall, Maggie	" William Crippen.
"	Martian (Can.)	" Mars.
"	Mataafa	" Pennsylvania.
"	Meaford (Can.)	" Newmount.
"	Melbourne	" City of Holland.
"	Meyer, F. A.	" J. Emery Owen.
"	Michipicoten (Can.)	" City of Windsor.
"	Mills, David W.	" Sparta.
"	Minnekahta	" W. H. Gratwick No. 1.
"	Minnesota	" Harlem.
"	Minnetonka	" Alva.
"	Morrison, Frank	" Lehigh.
"	Mueller	" E. S. Tice.
"	Murray Bay (Can.)	" Carolina.
"	Muskegon	" Peerless.
"	Myron	" Mark Hopkins.
"	Natironco (Can.)	" Pioneer.
"	Naomi	" Wisconsin.
"	Navajo (Can.)	" King Ben.
"	Neff, Lucy	" W. P. Ketchum.
"	Neilson, J. B.	" Washburn (Whaleback).
"	Nessen, N. J.	" H. L. Worthington.
"	New York	" Shrewsbury.
"	Niagara (Can.)	" Druid.
"	North King (Can.)	" Norseman.
"	Northmount (Can.)	" Prince Rupert.
"	Olcott (Can.)	" Lakeside.
Bge.	Olga	" Sandusky.
Str.	Omego	" Fayette Brown.
"	Ongiara (Can.)	" Queen City.
"	Osborne, A. W.	" Andrew Carnegie.
"	Otis, John	" G. J. Truesdell
"	Orion	" Isaac May.
"	Ottawa (Can.)	" A. B. Taylor.
"	Owana	" Pennsylvania.
"	Paipoonge (Can.)	" Corona.
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"	Pere Marquette No. 16	"	Muskegon and Shenago No. 2.
"	Peters	"	Jim Sheriffs.
"	Perseus	"	F. J. Hecker.
"	Phelps, Frand D.	"	Cyclone.
"	Phenix	"	W. A. Avery.
"	Philbin, D. M.	"	Sylvania.
"	Pine Lake	"	Ida M. Torrent.
"	Portland	"	A. B. Wolvin.
"	Prescott (Can.)	"	Bohemian.
"	Pringle, John C.	"	W. H. Gratwick.
Bge.	Quickstep	"	S. Anderson.
Str.	Racine	"	Argo.
"	Rapids Queen	"	Brockville.
"	Recor, E. P.	"	F. S. Faxton.
"	Reliance	"	H. C. Sprague.
"	Rend, W. P.	"	G. G. Hadley.
"	Richardson, G. A.	"	Geo. J. Gould.
"	Rock Ferry (Can.)	"	Merrimac.
"	Rome	"	Chicago.
"	Roberts, John	"	City of Rossford.
"	Robbins, S. H.	"	H. W. Oliver.
Bge.	Rickarton (Can.)	"	Chippewa.
"	Romeo	"	Tailor.
"	Sagamore	"	D. Z. Norton.
Str.	Saronic	"	United Empire.
"	Sarnian (Can.)	"	Chili.
"	Sarnor (Can.)	"	Britannic.
"	Saunders, Jr., E. N.	"	Abraham Stearn.
"	Shaw, Charles H. (Can.)	"	John R. Langdon.
Schr.	Skeele, E. E.	"	John Mee.
Str.	Soo City (Can.)	"	Mabel Bradshaw.
"	Senator Derbyshire	"	Bermuda.
"	Sirius	"	R. L. Ireland.
"	Sowards (Can.)	"	Rand.
Bge.	Stanley, H. M. (Can.)	"	J. H. Breck.
Str.	Stanstead (Can.)	"	Clyde.
"	State of New York	"	City of Mackinac.
"	State of Ohio	"	City of Alpena.
"	Sterling, John R.	"	Vanderbilt.
"	Sturgess, Geo.	"	Higgie.
"	St. Irenee (Can.)	"	Canada.
"	Syracuse	"	Geronia.
Bge.	Taber, Horace	"	Amoskeag.
Str.	Tadousac (Can.)	"	Virginia.
"	Taurus	"	Perry G. Walker.
"	Taylor, S. Frater (Can.)	"	Saturn.
"	Tennessee	"	John Spry.
"	Tennessee	"	H. W. Williams.
"	Three Brothers	"	H. W. Williams.
Bge.	Tolmie, John (Can.)	"	Clara.
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"	Underwood, F. D.	"	Ramapo.
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"	Van Vleck, Geo. H.	"	Portage.
"	Vermillion	"	J. C. Gilchrist.
"	Warren, Homer	"	Atlantic.
"	Wau-Kon	"	Charles West.
"	Westerian (Can.)	"	City of Montreal.
"	Wiehe, Trude R.	"	Alex Folsom.
"	Windsor (Can.)	"	Iroquois.
"	Winnipeg	"	Juniata.
"	Wisconsin	"	F. & P. M. No. 1.
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Can handle boats of any length.

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Can handle boats of any length.
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Capacity per day 600 tons.
Depth of water 15 feet.
Maximum length of boat 370 feet.

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Mullen Coal Co.—
Lower end of Detroit River.
Capacity per 10 hours 600 tons.
Depth of water at dock 20 feet.
Supt. Duerson Gatfield.

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Clarkson Coal & Dock Co.—
Capacity per 10 hours on large boats 2,000 tons; small boats 1,500 tons.
Depth of water 20 feet.
Maximum length of boat 620 feet.

Pittsburgh & Ashland Coal & Dock Co.—
Capacity per 10 hours 1,500 tons.
Depth of water 19 feet 6 inches.
Maximum length of boat 440 feet.
Supt. Fred Erickson.

Reiss Coal Co., C. (C. N. & W.)—
Capacity per day 3,000 tons.
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Supt. M. Schrank.

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Depth of water 18 feet.
Supt. M. Schrank.

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Supt. Robt. W. Dingee.

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McMyler Car Dump (East Side).
Supt E. O. Whitney.

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Central Coal Co.—
Capacity per 10 hours 600 tons.
Depth of water at dock 12 to 15 feet.
Supt. F. W. Braman.

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Capacity per 10 hours 300 tons.
Depth of water at dock 13 feet.
Can handle boats of any size.

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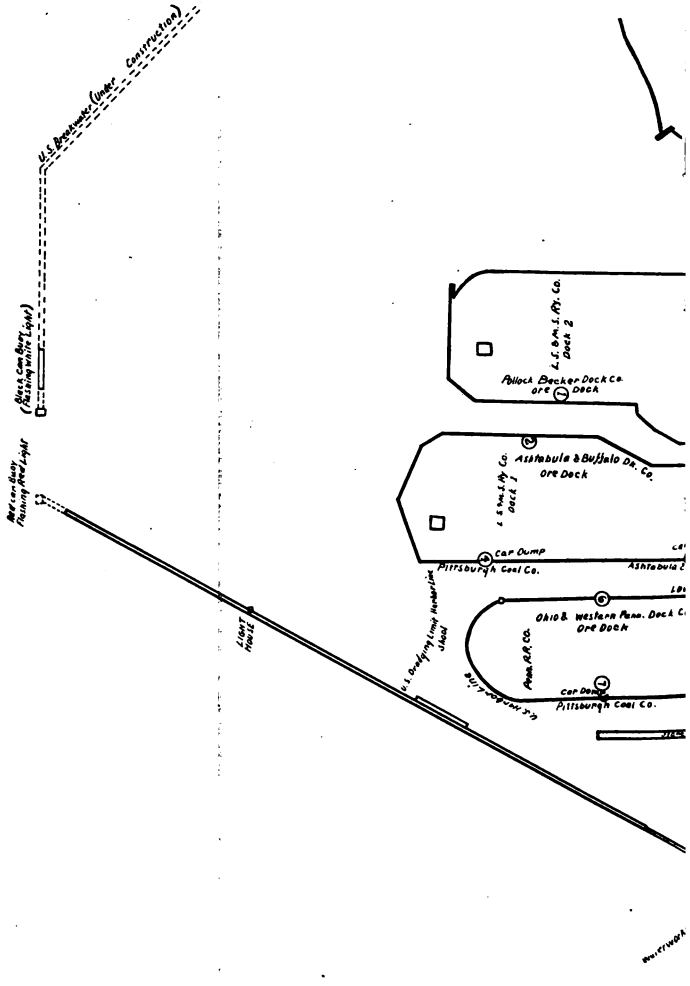
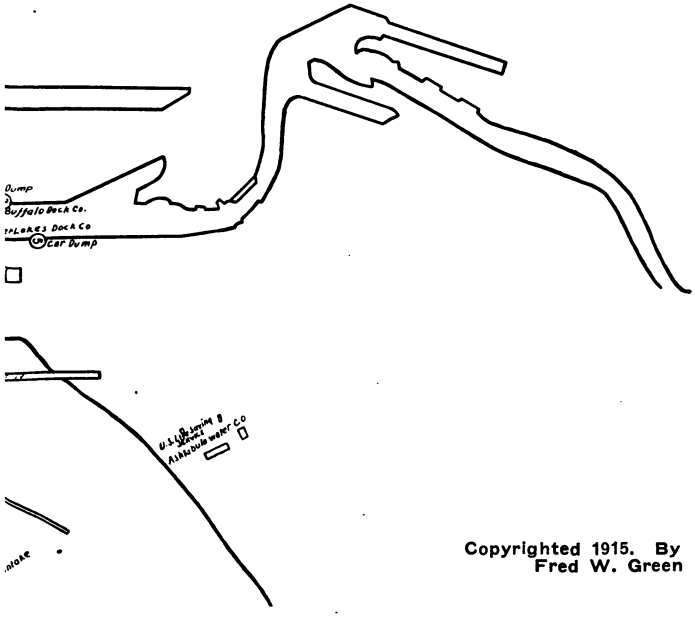
Boat to do the hoisting.
Capacity about 250 tons.


U.S. Breakwater (Under Construction)
Black Can Buoy (Flashing White Light)
Red can buoy Flashing Red Light
LIGHT HOUSE
U.S. Dredging Long Harbor Channel
L.S. Dredging Long Harbor Channel
L.S. & M.S. Ry. Co. Dock 2
Pollock Becker Dock Co. Ore Dock
L.S. & M.S. Ry. Co. Dock 1
Ashtabula & Buffalo Dk. Co. Ore Dock
Car Dump
Pittsburgh Coal Co.
Ashtabula
Ohio & Western Penn. Dock Co. Ore Dock
Penn. R.R. Co.
Car Dump
Pittsburgh Coal Co.

ASHTABULA HARBOR, OHIO.

1. Pollock-Becker Dock Co. (Union).
2. Ashtabula & Buffalo Dock Co. (ore dock) P. M. & Co. (Superior).
3. Ashtabula & Buffalo Dock Co. (car dump) P. M. & Co.
4. Pittsburgh Coal Co. (car dump) Lake Shore Side, No. 9.
5. Hanna & Co., M. A. (car dump).
6. Ohio & Western Pennsylvania Dock Co. (ore dock) Hanna & Co.
7. Pittsburgh Coal Co. (car dump) Pennsylvania Side, No. 11.



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Fred W. Green

BELLEVILLE, ONT.

N. Allens Dock—
Capacity per 10 hours 250 tons.
Depth of water at dock 11 feet.
Supt. N. Allen.

F. S. Anderson Co.—
Capacity per 10 hours 200 tons.
Depth of water at dock 10 feet.

Downey Coal Co.—
Capacity per 10 hours 225 tons.
Depth of water at dock 10 feet.

Schuster Co.—
Capacity per 10 hours 225 tons.
Depth of water at dock 11 feet.

BIG TRAVERSE BAY, MICH. (See Mohawk, Mich.)

BLIND RIVER, ONT.

Eddy Brothers & Co., Ltd.—
Storage capacity 400 tons.
Depth of water 12 feet 6 inches.
Supt. J. R. Stover.

Government Dock—
W. H. McGauley operator.
Unload with wheel barrows.
Capacity per 10 hours 150 tons.
Depth of water at dock 16 feet.
Maximum length boat 400 feet.

BRUCE MINES, ONT.

Martin International Trap Rock Co.—
Storage capacity 75,000 tons.
2 Belt conveyors, 80 feet apart.
Capacity per 10 hours, both conveyors, will be about 20,000 tons.
Height of spout from water 45 feet.
Height of dock from water 15 feet.
Length of spout 15 feet.
Length of dock 180 feet.
Depth of water at the dock 21 feet.

BUFFALO, N. Y.

Restof Mining Co. (Salt Shippers)—
Scranton, Pa.
Salt loaded over Erie Trestle.

Sterling Salt Co.—
29 Broadway, N. Y. City.
Loaded at W. J. Connors Dock Ohio Basin.
Depth of water at dock 13 feet.
Capacity per day 300 tons.

D. L. & W.—
Coal trestle.
Supt. G. W. Burke.

Erie R. R.—
Coal trestle.

Lehigh Valley—
Coal trestle, maximum beam of boat 54 feet, length 525.

P. & R. Coal & Iron Co.—
Coal trestle. Buffalo, N. Y.

STEEL RAIL LOADING DOCKS

Lehigh Valley Dock—
Capacity per 24 hours 1,500 tons.
Can load any length boat.
Maximum beam of boat 52 feet.
Depth of water at dock 19 feet.

Lackawanna Steel Co.—
Capacity per 24 hours 3,300 tons.
Can load any length boat.

BYNG INLET, ONT.

Canadian Pacific Railway—
Capacity per 10 hours 2,500 tons.

CALCITE, PRESQUE ISLE CO., MICH.

Michigan Lime Stone & Chemical Co.—
48 inch conveyor belt used for loading.
Storage capacity 30,000 tons.
Depth of water at dock 21 feet.

CHARLEVOIX, MICH.

Charlevoix Coal & Wood Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 11 feet.
Length of boat can reach dock 200 feet.
Supt. L. S. See.

CHEBOYGAN, MICH.

Mackinac Straits Coal & Dock Co.—
Capacity per 10 hours 1,200 tons.
Depth of water at dock 12 feet.

Cheboygan Gas Co.—
Capacity per day 140 tons.
Depth of water 9 feet.
Supt. F. B. Spencer.

McArthurs Dock (M. D. Olds, Prop.)—
Capacity per day 500 tons.
Depth of water 16 feet.
Maximum length of boat 300 feet.
Supt. R. E. Matt.

CHICAGO, ILL. (North Branch)
(See South Chicago also.)

Consumers Co. (Consumers Bldg.)—
Webster Ave. Bridge.
North Branch.
Capacity per 10 hours 1,500 tons.
Depth of water at dock 18 feet.
Can handle 350 foot boat.
Supt. John Arndt, Jr.

Dreske & Hinners—
Elston Ave.
Capacity per hour 60 tons.
Maximum length of boat 250 feet.

Eureka Coal and Dock Co. (1509 Cortland St.)—
Cortland St. Bridge.
Capacity 250 tons per hour.
Depth of water 22 feet.
Maximum length of boat 300 feet.
Supt. W. C. Krueger.

Hedstrom & Co., E. L. (North Ave.)—
Capacity per day 2,000 tons.
Depth of water 18 feet 6 inches.
Maximum length of boat 465 feet.
Maximum beam of boat 54 feet.
Supt. Wm. Rhodes.

Lehigh Valley Coal Sales Co.—
Capacity per day 2,000 tons.
Depth of water 20 feet.
Maximum length of boat 408 feet.
Supt. A. Wallace.

Lehigh Valley Coal Sales Co.—
Chicago Ave. Dock.
Capacity per day 2,000 tons.
Depth of water 20 feet.
Maximum length of boat 400 feet.
Supt. A. Wallace.

Lill-Robinson Coal Co.—
Chester St. Dock.
Capacity per 10 hours soft coal 2,400 tons.
Capacity per 10 hours hard coal 3,000 tons.
Depth of water 20 feet.
Maximum length of boat 325 feet.
Supt. W. W. Lill.

Philadelphia & Reading Coal & Iron Co.—
N. Halsted St. Dock.
Capacity per 10 hours 800 tons.

Pittsburgh Coal Co. (Fuel Dock)—
North Pier Dock.
Capacity per 10 hours 1,000 tons.
Depth of water 20 feet.
Maximum length of boat 400 feet.
Supt. A. J. Hitchcock.

Richardson Coal Co., O. S.—
North Branch, "Elston Avenue Dock."
Capacity per 10 hours 3,500 tons.
Depth of water at dock 22 feet.
Maximum length of boat 580 feet.

Scheunemann & Co., O. F.—
Division St.
Capacity per 10 hours 750 tons.

Schenck Co., S. C. (D. L. & W.)—
Division St.—Goose Island.
Capacity per ten hours 2,500 tons.
Depth of water 19 feet.
Maximum length of boat 500 feet.
Supt. J. C. Karman.

SOUTH BRANCH. (Chicago River)

Philadelphia & Reading Coal & Iron Co.—
Canal and Lumber Sts.
Capacity per 10 hours 750 tons.

Schenck Co., S. C. (D. L. & W.)—
35th St. Dock.
Capacity per 10 hours 2,500 tons.
Depth of water 18 feet 6 inches.
Can handle boats of any length.
Maximum beam of boat 52 feet.
Supt. Hugh P. Moran.

CHICOUTIMI, QUEBEC

Price Brothers & Co., Ltd.—
Saguenay River.
Capacity per 10 hours 600 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.
Supt. J. McD. Grosart.

CLEVELAND, OHIO

Pittsburgh Coal Co. (Cuddy-Mullen)—
McMyler Car Dump, 1st Machine.
Supt. A. A. Wedow.

Ellsworth & Co., J. W.—
McMyler Car Dump, 2d Machine.
Supt. P. Gallagher.

East Pier Dock Co.—
Capacity per 10 hours 600 tons.
Depth of water at dock 20 feet.
Supt. P. Gallagher.

Pennsylvania—
McMyler Car Dump, 3d Machine.
Supt. P. Gallagher.

Pittsburgh Coal Co. (Irishtown)—
Wellman-Seaver Car Dump (Above Viaduct).
Supt. Mike McCarthy.

Pittsburgh Coal Co. (West Side Fuel Dock)—
Supt. W. P. Bennett.

W. & L. E.—
McMyler Car Dump (Above Erie R. R. Bridge).

COLLINGWOOD, ONT.

Collingwood Packing Co.—
West Side of the Harbor.
Capacity per 10 hours 400 tons.
Depth of water at dock 16 feet.
Length of boat can reach dock 400 feet.
Supt. John Bannan.

Collingwood Ship Building Co., Ltd.—
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.

Northern Navigation Co.—
One Steam Hoist.
Capacity 400 tons.

COURTRIGHT, ONT.

Western Salt Co., Ltd.—
One-half mile below Courtright.
Capacity per 10 hours 450 tons.
Depth of water at dock 19 feet.
Maximum length of boat 300 feet.
Supt. W. A. Leach.

DE PERE, WIS.

American Writing Paper Co.—
Depth of water 15 feet.
Maximum length of boat 500 feet.
Supt. J. S. Gittins.

De Pere Co-Operative Coal Co.—
Capacity per day 500 tons.
Depth of water 15 feet.
Maximum length of boat 250 feet.
Supt. H. Barlament.

Wells Co., A. G.—
Capacity per day hard coal 900 tons.
Capacity per day soft coal 500 tons.
Depth of water 15 feet.
Maximum length of boat 300 feet.
Foreman, W. S. Altmayer.

DEPOT HARBOR, ONT.

Grand Trunk Ry. Co.—
Capacity per 10 hours 1,300 tons.
Depth of water 21 feet.
Maximum length of boat 500 feet.
A. J. Brett, Agent.

DETOUR, MICH.

Detour Dock Co.—
Pickands-Mather & Co., Cleveland, Ohio.
Capacity per 10 hours 2,500 tons.
16 pockets, capacity 2,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Fuel dock exclusively.
W. H. Lewis, Agent.

Watson, T. H.—
Capacity per 10 hours 500 tons.
Depth of water 21 feet.
Maximum length of boat 600 feet.
Fueling dock also.

DESERONTO, ONT.

Canada Cement Co., Ltd.—
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet.
Can handle boats of any length.
Supt. Elmor French.

Rathbun Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 12 feet.
Supt. H. B. Sherwood, Napanee, Ont.

DETROIT, MICH.

United Fuel & Supply Co. (Formerly Stanley B. Smith & Co.)—
12 Overhead pockets, 600 tons capacity.
Fueling capacity 300 tons per hour.
Capacity per 10 hours 700 tons.
Depth of water at dock 25 feet.
Mgr. J. M. McKerchey.
Fueling station.

Water Works—
Depth of water 13 feet.
Capacity per day 350 tons.

DOLLAR BAY, MICH.

Lake Superior Smelting Co.—
Capacity per 10 hours 500 tons.
Depth of water 18 feet.
Maximum length of boat 300 feet.
Supt. H. D. Conant.

Tamarack Mining Co. (Union Dock)—
Capacity per 10 hours 3,000 tons.
Depth of water 19 feet 6 inches.
Can handle boats of any length.
Supt. Hugh Moore.

Tamarack Osceola Copper Mfg. Co. (Wire Mill Dock)—
Capacity per 10 hours 450 tons.
Depth of water 20 feet.
Can handle boats of any length.
Supt. F. W. Foley.

DULUTH, MINN.

Berwind Fuel Co. (Dock No. 2)—
West Duluth Dock.
Capacity per 10 hours 10,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Supt. W. K. Link.

Boston Coal Dock & Wharf Co.—
Capacity per 10 hours 3,000 tons.
Depth of water 18 feet 6 inches.
Can handle boats of any length.
Supt. James Patten.

Carnegie Fuel Co., Dock No. 2 (Bituminous)—
Capacity per 10 hours 5,000 tons.
Can handle any size boat.
Depth of water about 20 feet.
Supt. W. W. Spring.

Carnegie Fuel Co., Dock No. 2 (Anthracite)—
Capacity per 10 hours 5,000 tons.
Depth of water about 22 feet.
Supt. W. W. Spring.

Clarkson Coal & Dock Co.—
Rices Point, between Capital & Consolidated Elevators.
Capacity per 10 hours 3,000 tons.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 20 feet.
Can handle any size boat.
Supt. George H. Reese.

Cutler & Co., D. G. (Stone Dock)—
Located in Slip No. 5.
Capacity per 10 hours 1,400 tons.
Depth of water 17 feet.
Maximum length of boat 300 feet.
Supt. D. Ridgewell.

Duluth, Missabe & Northern Ry. Co.—
Capacity per 10 hours 12,000 tons.
Depth of water 22 feet.
Can handle boats of any length.
Supt. C. H. Fugle.

Island Creek Coal Dock Co., Dock No. 1—
St. Louis River, West Duluth.
Capacity per 10 hours 6,000 tons.
Depth of water at dock 24 feet.
Supt. A. W. Fluegel.

North Western Fuel Co.—
Foot of 5th Ave.
Capacity per 10 hours 2,500 tons.
Depth of water 18 feet.
Can handle boats of any length.
Supt. A. C. Jones.

North Western Fuel Co., Dock No. 6 (Pgh. No. 1)—
Capacity per 10 hours 10 rigs 5,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. A. C. Jones.

Pittsburgh Coal Co. (Dock No. 7)—
Capacity per 10 hours 8,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.
Supt. Chas. Gallagher.

Zenith Furnace Co.—
Capacity per 10 hours 5,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Supt. F. C. Harris.

EMPIRE, MICH.

J. Wilcox Co. (Empire Lumber Co.)—
Depth of water at dock 14 feet.
Can handle boats of any length.
Supt. E. R. Dailey.

ERIE, PA.

Y. & O. Coal Co.—
McMyler Car Dump.

Hammermill Paper Co.—
Capacity per day 800 cords.
Depth of water at dock 18 feet.
Can handle any length boat.
Supt. E. Held.

ESCANABA, MICH.

Central Coal Co. (C. M. & St. P.)—
Capacity per 10 hours 2,000 tons.
Depth of water at dock 25 feet.
Can handle boats of any length.
Supt. J. Earling.

Reiss Coal Co., C. (C. & N. W.)—
Capacity per 10 hours 2,500 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Thomas Sherlock.

FAIRPORT, OHIO

Pittsburgh Coal Co.—
McMyler Car Dump.
Supt. A. G. Miltner.

FORESTVILLE, MICH.

N. C. Potts—
No unloading equipment.
Depth of water at dock 11 feet.

FORT WILLIAM, ONT.

Canadian Pacific Ry. Co.—
Capacity per 10 hours 6,500 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Supt. O. Peterson.

Canadian Pacific Ry. Co.—
Capacity per 10 hours 700 tons.
Depth of water at dock 22 feet.
Supt. O. Peterson.

Canadian Pacific Ry. Co. (Island Dock)—
Capacity per 10 hours 8,500 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Supt. O. Peterson.

Fort William Coal Dock Co.—
Capacity per 10 hours 5,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. C. B. Neinaber.

Murphy, James—
Kaministiquia River.
Capacity per 10 hours 1,400 tons.
Depth of water at dock 20 feet.
Can handle any size boat.

Steel Rail Unloading Docks—
Canadian Pacific Railway.
Grand Trunk Pacific Railway.
Canadian Northern Railway.

GARY, IND.

Indiana Steel Co. (Rail Loading Dock)—
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.

GLADSTONE, MICH.

Pittsburgh Coal Co.—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Peter Peterson.

GOAT ISLAND, ONT.

Algoma Eastern Terminals—
North side of Little Current Channel.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 22 feet.
Maximum length of boat 350 feet.
Supt. G. A. Montgomery, Soo, Ont.

GODERICH, ONT.

Electric Light Plant—
Capacity per day 225 tons.

Goderich Elevator & Transit Co.—
Capacity per day 300 tons.
Depth of water at dock 18 feet.
Maximum length of boat 300 feet.
Supt. G. L. Parsons.

Holmes, F. Barlowe—
Capacity per day 250 tons.

Western Canada Flour Mill Co., Ltd.—
Capacity per 10 hours 500 tons.
Capacity 10 hours 300 tons.
Depth of water at dock 18 feet 6 inches.
Length of boat can reach dock 300 feet.
Supt. J. W. Fraser.

GORE BAY, MANITOULIN ISLAND, ONT.

Purvis Brothers—

GRAND MARAIS, MICH.

Booth Fisheries Co.—

GREEN BAY, WIS.

Central Coal Co. (C. M. & St. P.)—
Capacity per 10 hours 2,000 tons.
Depth of water at dock 18 feet and 6 inches.
Can handle boats of any length.
Supt. Henry Stange.

Flatley Brothers Co.—
Capacity per 10 hours 700 tons.
Depth of water at dock 18 feet.

Barkhausen Coal & Dock Co. (South Dock)—
Capacity per day 1,500 tons.
Depth of water at dock 18 feet and 6 inches.
Maximum length of boat 400 feet.
Supt. H. L. Fiedler.

Barkhausen Coal & Dock Co. (North Dock)—
Capacity per 10 hours 700 tons.
Depth of water at dock 18 feet and 6 inches.
Maximum length of boat 300 feet.
Supt. Joe Ecot.

Hurlbut Co., F.—
Capacity per day 1,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 650 feet.
Supt. A. Francis.

Reiss Coal Co., C.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 18 feet 6 inches.
Can handle boats of any length.
Supt. W. B. Gueinzius.

GROSSE POINT, MICH.

P. O. Address, Point Mills, Mich.

Arcadian Mining Co.—
Capacity per day 300 tons.

Asphalt Block Pavement Co. (Sand Dock)—
Loading capacity 3,000 tons per 10 hours.
Depth of water at dock 21 feet.
Supt. Henry F. Key, Hancock, Mich.

Centennial Mining Co.—
Capacity per day 600 tons.

Franklin Mining Co.—
Capacity per day 700 tons.
Depth of water at dock 20 feet.
Supt. E. S. Warne.

Lake Milling, Smelting & Refining Co.—
Capacity per day 650 tons.

HANCOCK, MICH.

City Dock (Water Works)—
Capacity per day 500 tons.
Depth of water at dock 18 feet.
Supt. Richard Grangnier.

Hodge Iron Co.—
Capacity per day 300 tons.
Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
Supt. L. M. Cleaves.

Houghton County Gas Co.—
Coal is unloaded over the dock of the Portage Coal & Dock Co.

Houghton County Traction Co.—
Capacity per day 400 tons.
Depth of water at dock 19 feet.
Supt. John Ralph, Jr.

People's Fuel Co.—
Capacity per 10 hours hard coal 1,200 tons.
Capacity per 10 hours soft coal 800 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 310 feet.
Supt. Richard Vincent.

Portage Coal & Dock Co.—
Capacity per 10 hours 2,500 tons.
Depth of water at dock 19 to 22 feet.

[illegible] boats of any length.
Capt. Thomas [illegible].

Portage Lake Foundry & Machine Co.—
Capacity per day 300 tons.
Depth of water at dock 14 feet.
Maximum length of boat [illegible] feet.
Capt. [illegible] M. [illegible].

Mineral Range Railroad Co.—
Capacity per 24 hours [illegible] tons.
Depth of water at dock [illegible] feet.
Maximum length of boat [illegible] feet.
Capt. T. [illegible], Calumet, Mich.

Quincy Smelting Co.—
Capacity per day 400 tons.

HARBOR BEACH, MICH.

The Menominee Co., Ltd.—
Capacity per day 40 tons.
Depth of water at dock 11 feet.
Maximum length of boat 40 feet.
Capt. A. M. Jones.

HOUGHTON, MICH.

Atlantic Mining Co.—
Capt. [illegible].

Carroll Foundry Co.—

Copper Range Railroad Co.—
Capacity per 24 hours [illegible] tons.
Depth of water at dock [illegible] feet.
Maximum length of boat [illegible] feet.
Capt. A. E. Eckers.

Croze, Joe—
Capacity per day 20 tons.
Depth of water at dock [illegible] feet.
Maximum length boat can handle 40 feet.

Houghton County Electric Light Co.—
Total capacity per 24 hours [illegible] tons.
Depth of water at dock 21 feet.
Maximum length of boat 30 feet.
Capt. Otto Sattler.

Houghton County Traction Co.—
Capacity per [illegible] tons.
Depth of water at dock [illegible] feet.
Maximum length of boat [illegible] feet.
Capt. [illegible] Ralph, Jr.

Isle Royale Copper Co.—
Capacity per 24 hours [illegible] tons.
Depth of water at dock [illegible] feet.
Maximum length of boat can handle [illegible] feet.
Capt. [illegible] Harrella.

Portney Coal Docks—
Capacity per day 250 tons.

Van Orden Co., W.—
Capacity per 24 hours [illegible] tons.
Depth of water at dock [illegible] feet.
Can unload any size boat.
Capt. [illegible] Reilly.

HUBBELL, MICH.

Calumet & Hecla Smelting Works—
Capacity per day [illegible] tons.
Depth of water [illegible] feet.
Can unload any size boat.

Ethier, Joseph—
Capacity per 24 hours hard coal [illegible] tons.
Capacity per 24 hours soft coal [illegible] tons.
Depth of water 14 feet.
Maximum length of boat 275 feet.
Capt. J. J. Ethier.

Osceola Mining Co.—
[illegible] Lawton, Gen. Mgr., Hancock.

Quincy Mill—
Capacity per day 2,500 tons.

HURON, OHIO

W. & L. E.—
Car Dump No. 1 (East Side).

W. & L. E.—
Car Dump No. 2 (West Side).
Capt. T. R. [illegible].

INDIANA HARBOR, IND.

Inland Steel Co.—
Capacity per 24 hours 4,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.
Capt. John W. Lees.

JACKFISH, ONT.

Canadian Pacific Ry. Co.—
Capacity per 24 hours 2,000 tons.

KELLEY ISLAND, OHIO

Kelley Island Lime & Transport Co.—
Depth of water inner end 16 feet.
Depth of water at outer end 21 feet.

Kelley Island Lime & Transport Co.—
North Side Dock.
Can load 1,200 tons per day.
Depth of water at dock 13 feet 6 inches.

Kelley Island Lime & Transport Co.—
South Side Dock.
Can load 1,200 tons per day.
Depth of water at dock 12 feet 6 inches.

KENOSHA, WIS.

Allen's Sons Co., N. R.—
Storage capacity 7,500 tons.

Baldwin Coal Co., Geo. S.—
Capacity per day hard coal 800 tons.
Capacity per day soft coal 700 tons.
Maximum length of boat 300 feet.
Depth of water 17 feet.

O'Donnell Coal Co., John—
Capacity per 10 hours hard coal 650 tons.
Capacity per 10 hours soft coal 500 tons.
Depth of water at dock 17 to 18 feet.
Maximum length of boat 500 feet.

North Shore Fuel & Supply Co.—
Capacity per day 700 tons.

KEWAUNEE, WIS.

Kewaunee Grain Co.—
Capacity per day 300 tons.
Storage capacity 3,000 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.
Supt. G. A. Duvall.

KEWEENAW BAY, BARAGA COUNTY, MICH.

Mass Consolidated Mining Co.—
Capacity per 10 hours 750 tons.
Depth of water at dock 14 feet.
Supt. E. F. Douglass.

KEY HARBOUR, ONT.

Canadian Northern Ontario Railway Dock—
Capacity per 10 hours 1,200 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
D. Crombie, Supt. Trans., Toronto.
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleveland, O.

KINGSTON, ONT.

James Swift & Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 12 feet.
Length of boat can reach dock 400 feet.
Supt. F. Conway.

Canadian Locomotive Co., Ltd.—
Capacity per 10 hours 500 tons.
Depth of water at dock 12 feet.
Maximum length of boat 550 feet.

Soward's Coal Co. & Crawfords Dock—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. J. F. Soward.

Water Works Dept.—
Depth of water at dock 14 feet.
Mgr. C. C. Folger.

KINCARDINE, ONT.

Kincardine Electric Light & Gas Dept.—
Capacity per day 375 tons.
Depth of water at dock 15 to 17 feet.
Supt. J. R. McLinden.

Ontario People's Salt & Soda Co., Ltd.—
Depth of water at dock 14 feet.
Maximum length boat 200 feet.
John Talmie, Secy.

Hunter Dredge & Boiler Works—
Unload with horses.

KNIFE RIVER, MINN.

Duluth & Northern Minnesota Ry. Co.—
Capacity per 10 hours 500 tons.

Can handle boats of any length.
Supt. Thomas Duffy.

Portage Lake Foundry & Machine Co.—
Capacity per day 300 tons.
Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
Supt. L. M. Cleaves.

Mineral Range Railroad Co.—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 15 feet.
Maximum length of boat 300 feet.
Supt. T. W. Smith, Calumet, Mich.

Quincy Smelting Co.—
Capacity per day 600 tons.

HARBOR BEACH, MICH.

The Mehlethaler Co., Ltd.—
Capacity per day 400 tons.
Depth of water at dock 13 feet.
Maximum length of boat 300 feet.
Supt. A. M. Jenks.

HOUGHTON, MICH.

Atlantic Mining Co.—
Supt. Theo. Dengler.

Carroll Foundry Co.—

Copper Range Railroad Co.—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 700 feet.
Supt. A. E. Ehlers.

Croze, Joe—
Capacity per day 250 tons.
Depth of water at dock 17 feet.
Maximum length boat can handle 300 feet.

Houghton County Electric Light Co.—
Total capacity per 10 hours 500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 300 feet.
Supt. Otto Snyder.

Houghton County Traction Co.—
Capacity per 10 hours 500 tons.
Depth of water at dock 20 feet.
Can handle boats of 400 foot length.
Supt. John Ralph, Jr.

Isle Royal Copper Co.—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat can handle 376 feet.
Supt. J. G. Glanville.

Northey Coal Dock—
Capacity per day 250 tons.

Van Orden Co., M.—
Capacity per 10 hours 1,500 tons.
Depth of water at dock 21 feet.
Can unload any size boat.
Supt. Louis Reidy.

HUBBELL, MICH.

Calumet & Hecla Smelting Works—
Capacity per day 3,500 tons.
Depth of water 22 feet.
Can unload any size boat.

Ethier, Joseph—
Capacity per 10 hours hard coal 600 tons.
Capacity per 10 hours soft coal 400 tons.
Depth of water 18 feet.
Maximum length of boat 275 feet.
Supt. J. J. Ethier.

Osceola Mining Co.—
C. L. Lawton, Gen. Mgr., Hancock.

Quincy Mill—
Capacity per day 2,500 tons.

HURON, OHIO

W. & L. E.—
Car Dump No. 1 (East Side).

W. & L. E.—
Car Dump No. 2 (West Side).
Supt. T. R. Gillmore.

INDIANA HARBOR, IND.

Inland Steel Co.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.
Supt. John W. Lees.

JACKFISH, ONT.

Canadian Pacific Ry. Co.—
Capacity per 10 hours 2,500 tons.

KELLEY ISLAND, OHIO

Kelley Island Lime & Transport Co.—
Depth of water inner end 16 feet.
Depth of water at outer end 21 feet.

Kelley Island Lime & Transport Co.—
North Side Dock.
Can load 1,200 tons per day.
Depth of water at dock 13 feet 6 inches.

Kelley Island Lime & Transport Co.—
South Side Dock.
Can load 1,200 tons per day.
Depth of water at dock 12 feet 6 inches.

KENOSHA, WIS.

Allen's Sons Co., N. R.—
Storage capacity 7,500 tons.

Baldwin Coal Co., Geo. S.—
Capacity per day hard coal 800 tons.
Capacity per day soft coal 700 tons.
Maximum length of boat 300 feet.
Depth of water 17 feet.

O'Donnell Coal Co., John—
Capacity per 10 hours hard coal 650 tons.
Capacity per 10 hours soft coal 500 tons.
Depth of water at dock 17 to 18 feet.
Maximum length of boat 500 feet.

North Shore Fuel & Supply Co.—
Capacity per day 700 tons.

KEWAUNEE, WIS.

Kewaunee Grain Co.—
Capacity per day 300 tons.
Storage capacity 3,000 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.
Supt. G. A. Duvall.

KEWEENAW BAY, BARAGA COUNTY, MICH.

Mass Consolidated Mining Co.—
Capacity per 10 hours 750 tons.
Depth of water at dock 14 feet.
Supt. E. F. Douglass.

KEY HARBOUR, ONT.

Canadian Northern Ontario Railway Dock—
Capacity per 10 hours 1,200 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
D. Crombie, Supt. Trans., Toronto.
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleveland, O.

KINGSTON, ONT.

James Swift & Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 12 feet.
Length of boat can reach dock 400 feet.
Supt. F. Conway.

Canadian Locomotive Co., Ltd.—
Capacity per 10 hours 500 tons.
Depth of water at dock 12 feet.
Maximum length of boat 550 feet.

Soward's Coal Co. & Crawfords Dock—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. J. F. Soward.

Water Works Dept.—
Depth of water at dock 14 feet.
Mgr. C. C. Folger.

KINCARDINE, ONT.

Kincardine Electric Light & Gas Dept.—
Capacity per day 375 tons.
Depth of water at dock 15 to 17 feet.
Supt. J. R. McLinden.

Ontario People's Salt & Soda Co., Ltd.—
Depth of water at dock 14 feet.
Maximum length boat 200 feet.
John Talmie, Secy.

Hunter Dredge & Boiler Works—
Unload with horses.

KNIFE RIVER, MINN.

Duluth & Northern Minnesota Ry. Co.—
Capacity per 10 hours 500 tons.

Depth of water at dock 15 feet.
Supt. George Ward.

LAKE LINDEN, MICH.

Lake Linden Fuel & Supply Co.—
Capacity per day 400 tons.

LEVIS, QUEBEC

Canadian Import Co. (Foundry Wharf)—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 20 feet.
Supt. R. J. Harding.

LIME ISLAND, MICH.

Pittsburgh Coal Co. (Fueling Station)—
Unloading capacity per 10 hours 1,800 tons.
Two coaling pockets, capacity 375 tons each, with 4 spouts each.
Height of spouts from water 47 feet.
Length of dock 800 feet.
Depth of water at dock 24 feet.

LITTLE CURRENT, ONT.

Boon Wrecking & Dredging Co.—
Capacity per day 225 tons.

Sims, T. C.—
Capacity per day 175 tons.
Depth of water at dock 14 feet.

LORAIN, OHIO

Baltimore & Ohio Ry. Co.—
2 McMyler Car Dumps.
No. 1 machine below the bridge.
No. 2 machine above N. Y. C. and St. Louis Ry. Bridge.
Supt. C. E. Pierce.

LUDINGTON, MICH.

Anchor Salt Co.—
Capacity per day 600 tons.
Depth of water 17 feet 6 inches.
Maximum length of boat can handle 315 feet.
Supt. E. C. Hardy.

Cartier Sons Co., A. E.—
Depth of water at dock 17 feet.
Maximum length of boat 350 feet.
Supt. M. J. McBane.

Stearns Salt & Lumber Co. (Salt Dock)—
Loading capacity 1,000 bbls. per hours or 75 tons per hour.
Depth of water at dock 17 feet.

MACKINAC ISLAND, MICH.

Arnold, George T.—
Capacity per day 500 tons.
Depth of water 14 feet.
Supt. George Lapene.

MANISTEE, MICH.

Duncan, J. W.—
Capacity per day 300 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.

American Hide & Leather Co.—
Coal handled by J. W. Duncan.

Buckley & Douglass Lumber Co. (Salt Dock)—
Capacity per 10 hours 800 tons.
Depth of water 15 to 16 feet.
Maximum length of boat 350 feet.
Supt. E. C. Schooley.

R. G. Peters Salt & Lumber Co. (Salt Dock)—
Loading capacity 1,500 tons per day.
Depth of water at dock 15 to 16 feet.
Supt. Chas. Grotemal.

MANISTIQUE, MICH.

Chicago Lumbering Co.—
Capacity per day 200 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.
Supt. F. Garrett.

MANITOWOC, WIS.

Goodrich Transportation Co.—
Capacity per day 700 tons.

Johnson Co., J. G.—
Capacity per 10 hours 850 tons.
Depth of water at dock 18 feet.
Maximum length of boat 300 feet.
Supt. Henry Bently.

Manitowoc Land & Fuel Co.—
Capacity per day hard coal 1,500 tons.
Capacity per day soft coal 900 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.

Reiss Coal Co., C. (C. & N. W. Dock)—
Depth of water at dock 19 feet.

Reiss Coal Co., C. (Soo Dock)—
Dock being rebuilt.

MARINE CITY, MICH.

Blood & Hart—
One Steam Hoist.
Capacity per day 100 tons.

Cottrell, R. A.—
Capacity per day 200 tons.
Depth of water 25 feet.
Maximum length of boat 580 feet.
Fueling dock.

Davidson & Wansey—
Capacity per day 150 tons.

Marine City Water Works—
Capacity per day 100 tons.
Depth of water 11 feet 6 inches.

Michigan Salt Works—
Capacity per day 1,000 tons.
Depth of water at dock 20 feet.
Supt. S. C. McLouth.

MARINETTE, WIS.

Norton Coal Co., Ed.—
Capacity per day 300 tons.

Marinette Fuel & Dock Co.—
Capacity per day 500 tons.
Depth of water 15 feet.
Can handle 500 foot boat.
Supt. C. P. Nevins.

MARQUETTE, MICH.

Pickands & Co., Ltd., James—
Capacity per day 3.000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.
Gen. Mgr. J. H. Hicok.

Spear & Sons, F. B.—
Capacity per day hard coal 1,800 tons.
Capacity per day soft coal 1,500 tons.
Depth of water at dock 17 feet.
Can handle boats of any length.

MEAFORD, ONT.

Georgian Bay Milling & Power Co.—
Capacity per day 350 tons.
Depth of water at dock 19 feet.
Can unload boats of any length.
Supt. W. T. Moore.

MENOMINEE, MICH.

Central West Coal Co.—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 18 feet.
Supt. A. C. Stephenson.

Lyon Brothers—
Capacity per day 600 tons.
Depth of water at dock 15 feet.
Maximum length of boat 300 feet.
Supt. C. O. Lyon.

Menominee River Sugar Co.—
Capacity per 10 hours 400 tons.
Depth of water at dock 17 feet.
Maximum length of boat 400 feet.
George McCormick, Mgr.

Nowack, T. C.—
Capacity per day 400 tons.
Depth of water at dock 15 feet.
Maximum length of boat 140 feet.

Ramsey & Jones—
Capacity per day 200 tons.

MICHIPICOTEN HARBOUR, ONT.

Commercial Dock—
Capacity per 10 hours 800 tons.
Depth of water at dock 20 feet.
Maximum length of boat 400 feet.
Supt. A. J. Donegan.

MIDLAND, ONT.

Canada Iron Corporation, Ltd.—
Capacity per day 1,200 tons.
Depth of water at dock 19 feet 6 inches.
Can handle boats of any length.
Supt. Geo. Drydale Drummond.

Midland Coal Dock Co., Ltd. (Canada Steamship Lines)—
Capacity per 22 hours 2,200 tons.
Depth of water at dock 22 feet.
Maximum length of boat 500 feet.
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleveland, O.
Supt. D. S. Pratt.

MILWAUKEE, WIS.

Callaway Fuel Co.—
Cherry St. Bridge.
Capacity per 10 hours 1,200 tons.
Depth of water at dock 19 feet.
Supt. Mike Albert.

Central Coal Co.—
North Menominee River.
25th Street Dock.
Capacity per 10 hours 6,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 650 feet.
Supt. E. J. Barthel.

Cleveland-Western Coal Co. (Y. & O.)—
West Menominee River.
25th Street Dock.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.

Daisy Mill Co. (Hecker Cereal Co.)—
Kinnickinnic River.
Capacity per 10 hours 500 tons.
Maximum length of boat 300 feet.

Gallun & Sons, A. F. (Tannery)—
Milwaukee River.
Capacity per 10 hours 750 tons.
Maximum length of boat 300 feet.

Gross Coal Co.—
North Menominee River.
First Avenue Dock.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 20 feet
Maximum length of boat 470 feet.
Supt. R. Botsch.

Kanawha Fuel Co.—
Pabst Slip.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 19 feet.
Maximum length of boat 380 feet.

Kanawha Fuel Co.—
North Menominee River.
Muskego Avenue.
Capacity per 10 hours 1,500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 650 feet.

Lehigh Valley Coal Sales Co.—
South Menominee River.
Canal Street Dock.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 434 feet.
Supt. C. O. Hansen.

Milwaukee Coke & Gas Co.—
Kinnickinnic River.
Greenfield Avenue.
Capacity per 10 hours 6,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 625 feet.
Supt. J. W. Shaeffer.

Milwaukee-Western Fuel Co.—
Milwaukee River.
Cherry Street Dock.
Capacity per 10 hours hard coal 4,500 tons.
Capacity per 10 hours soft coal 2,500 tons.
Depth of water at dock 19 feet.
Maximum length of boat 450 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Milwaukee River.
Commerce Street Dock.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 450 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River.
Washington Street Dock.
Capacity per 10 hours 5,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River.
Kinnickinnic Avenue Dock.
Capacity per 10 hours hard coal 4,500 tons.
Capacity per 10 hours soft coal 1,500 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River.
Greenfield Avenue Dock.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Anthracite Dock.
North Menominee River.
Sixteenth Street Dock.
Capacity per 10 hours hard coal 5,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
North Menominee River.
Sixteenth Street Dock.
Capacity per 10 hours 8,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
North Menominee River.
Canal Street Dock.
Capacity per 10 hours hard coal 4,000 tons.
Capacity per 10 hours soft coal 3,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
South Menominee River.
Pabst Slip.
Capacity per 10 hours soft coal 1,500 tons.
Depth of water at dock 17 feet.
Maximum length of boat 380 feet.
Supt. W. F. Ardern.

National Knitting Co.—
Kinnickinnic River.
Capacity per 10 hours 500 tons.
Depth of water at dock 14 feet.
Maximum length of boat 600 feet.
Supt. E. L. Sargent.

North Side Coal Co.—
Milwaukee River.
Commerce Street.
Capacity per 10 hours 750 tons.
Maximum length of boat 300 feet.

Philadelphia & Reading Coal & Iron Co.—
North Menominee River.
West 16th Street Viaduct.
Capacity per 10 hours 1,500 tons.
Capacity per 10 hours 700 tons.
Capacity per 10 hours slack coal 1,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 460 feet.
Supt. John T. Berns.

Pennsylvania Coal & Supply Co.—
Independent Dock.
Kinnickinnic River.
Capacity per 10 hours 2,500 tons soft coal.
Capacity per 10 hours 3,000 tons hard coal.

Pennsylvania Coal & Supply Co.—
Whitnall Dock.
North Menominee River.
Capacity per hour 300 tons.

Pennsylvania Coal & Supply Co.—
North Menominee River.
Capacity per 10 hours 2,500 tons hard coal.
Capacity per 10 hours 2,000 tons soft coal.
Capacity per hour 250 tons.
Can handle boats of any length.

Schlitz Brewing Co., Joseph—
Milwaukee River.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 505 feet.
Supt. U. B. Uihlein.

St. Paul & Western Coal Co.—
North Menominee Canal.
Canal Street Dock.
Capacity per 10 hours 2 000 tons.
Depth of water at dock 18 feet.
Can handle any length boat.
Supt. H. M. White.

Wisconsin Coal & Dock Co.—
South Menominee Canal.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 450 feet.
Supt. J. C. Booth.

Youghiogheny & Ohio Coal Co.—
South Menominee River (Wagner Slip).
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 430 feet.
Supt. B. J. Boyle.

MOHAWK, MICH.

Mohawk Mining Co.—
Capacity per 10 hours 800 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.
Supt. Andro Picotte.

Wolverine Copper Co.—
Coal unloaded over the dock of the Mohawk Mining Co.

MONTREAL, CAN.

American Locomotive Co.—
Longue Point.
Capacity per 10 hours 600 tons.
Supt. H. L. Breckenridge.

Canada Cement Co., Ltd., Plant No. 1—
Pointe-aux-Trembles.
Capacity per 10 hours 2,400 tons.
Depth of water at dock 25 feet.
Maximum length of boat 600 feet.
Supt. F. B. Kilbourn.

Canada Cement Co., Ltd.—
Montreal Harbor.
Capacity per 10 hours 700 tons.
Depth of water at dock 25 to 30 feet.
Maximum length of boat 600 feet.
Supt. F. B. Kilbourn.

Canadian Import Co.—
Near entrance of Lachine Canal.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 25 feet.
Supt. W. Q. Stobo.

Canada Sugar Refining Co.—
Wellington Basin, Lachine Canal.
Capacity each set, per 10 hours, 600 tons.
Depth of water boats can draw arriving at dock 14 feet 6 in.
Maximum length of boat that can reach dock 250 feet.
Supt. Mr. Bowers.

Canadian Tube & Iron Co.—
Located in Lachine Canal.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet.
Maximum length of boat 256 feet.
Supt. M. Mosley.

Dominion Coal Co., Ltd.—
Hochelago, Windmill Point.
Capacity each set per hour 1,700 tons.
Depth of water at dock 26 feet.
Supt. A. MacKenzie.

Empire Coal Co., Ltd. (Old Intercolonial Dock)—
Windmill Point.
Capacity per 10 hours 1,500 tons.
Depth of water at dock 25 feet.
Maximum length of boat 500 feet.
Supt. Thomas Martin.

Hall Coal Co., Ltd., George—
Lachine Canal.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 275 feet.
Supt. John Haskins.

Montreal Light, Heat & Power Co.—
Lasalle Gas Works (Lachine Canal).
Capacity per 10 hours 2,500 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 256 feet.
Supt. Sam Skinner.

Montreal Light, Heat & Power Co.—
Hochelaga Montreal Harbor.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 33 feet.
Maximum length of boat 550 feet.
Supt. Sam Skinner.

Nova Scotia Steel & Coal Co., Ltd.—
Bickerdike Pier, Windmill Point.
Capacity per 10 hours 2,600 tons.
Capacity per 10 hours 600 tons.
Depth of water at dock 28 feet.
Maximum length of boat 650 feet.

Ogdensburg Coal & Towing Co.—
No. 1 Basin, Lachine Canal.
Capacity per 10 hours 1,200 tons.
Depth of water at dock 14 feet.
Maximum length of boat 260 feet.

Ogdensburg Coal & Towing Co.—
Str. Henry, Lachine Canal.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet.
Maximum length of boat 260 feet.

Robertson, Farguhar—
No. 3 Basin, Lachine Canal.
Capacity per 10 hours 1,000 tons.
Depth of water at dock 14 feet.
Can handle any length boat.
Supt. Duncan Robertson.

Routh & Son, F. A.—
Capacity per 10 hours 500 tons.

The Steel Company of Canada—
Located on the Lachine Canal.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 250 feet.
Supt. H. M. Jaquays.

The Steel Company of Canada—
Located on the Lachine Canal.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 250 feet.
Supt. H. M. Jaquays.

MUNISING, MICH.

Cleveland-Cliffs Iron Co.—
Steamer to do the hoisting.
Depth of water at dock 22 feet.
Can handle any size boat.

Munising Leather Co.—
East side of the Bay.
Depth of water at dock 12 feet.
Maximum length of boat 110 feet.
Supt. John Allen.

MUSKEGON, MICH.

Bauknecht Brothers—
Capacity per 10 hours 250 tons.
Depth of water at dock 14 feet.
Can handle boats of any size.
Supt. Paddy Maher.

Magoon & Kimball Co.—
Capacity per 10 hours 250 tons.
Depth of water at dock 18 feet.
Maximum length of boat 225 feet.
Supt. George A. McKay.

OWEN SOUND, ONT.

Electric Light Dock—
Capacity per 10 hours 300 tons.
Depth of water at dock 20 feet.
Can handle any size boat.
Supt. Joseph McLinden.

Canada Cement Co.—
Capacity per 10 hours 600 tons.
Depth of water 20 feet.
Can handle boats of any length.
Supt. D. M. Butchard.

Creighton, A. J. (Government & Sun Cement Dock)—
Unload with Horses.
Capacity per 10 hours 300 tons.
Depth of water 20 feet.
Maximum length of boat 450 feet.

Canadian Pacific Railway Co.—
One McMyler with Clam.
Capacity per day 400 tons.

Davis-Smith-Malone Co., Ltd.—
Capacity per hoist 100 tons per day.
Depth of water at dock 18 feet.
Can handle boats of any length.
J. M. Davis, Pres. & Mgr.

Imperial Cement Co., Ltd.—
Capacity per 10 hours 450 tons.
Maximum length of boat 200 feet.
Depth of water at dock 17 feet.

McLauchlan Supply Co., Ltd., J. K.—
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.
Maximum length of boat 400 feet.

Doric Portland Cement Co., Ltd.—
Capacity per 10 hours 600 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. M. Smith.

PARRY SOUND, ONT.

Beatty Co., Ltd., William—
Capacity per 10 hours 225 tons.
Depth of water at dock 18 feet.

Gaina & Danter—
Capacity per 10 hours 150 tons.
Depth of water at dock 16 feet.

PENETANGUISHENE, ONT.

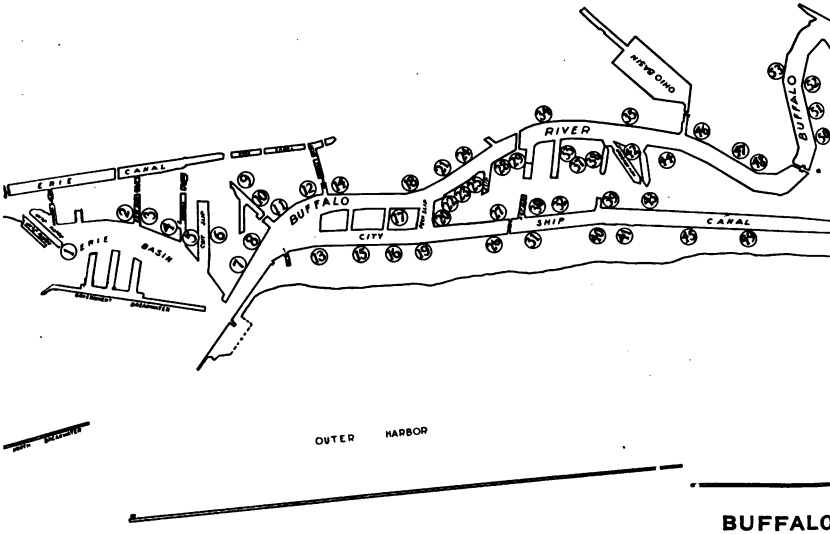
Breithaupt Leather Co.—
Unload with Horses.
Capacity per day 150 tons.

PICTON, ONT.

Hepburn Brothers—
Saginaw Steam Winch.

POINT EDWARD, ONT.

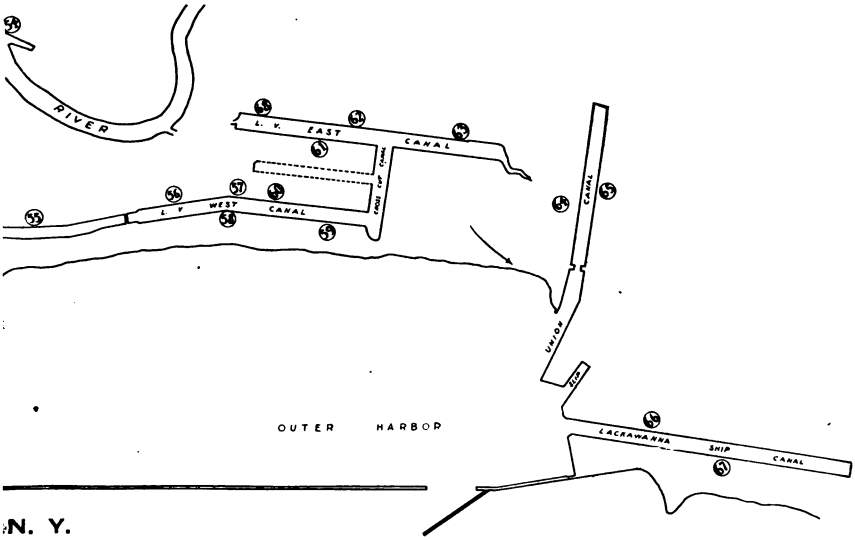
Northern Navigation Co., Ltd.—
Capacity per 10 hours 500 tons.
Depth of water at dock 20 feet.
Supt. W. J. McCormack.



BUFFALO

23. American Linseed Co.
51. American Malting Co. (Above Ohio St.)
45. Ashtabula & Buffalo Dock Co.
11. Anchor Line.
42. Buffalo Dry Dock Co.
30. Buffalo Fuel Co.
54. Buffalo Union Furnace Co.
6. Buffalo Warehouse & Distributing Co.
32. Buffalo, Rochester & Pittsburgh Ore Dock.
24. Cleveland & Buffalo Transit Co.
28. Cleveland & Buffalo Transit Co.
16. Connecting Terminal Elevator (Ship Canal).
20. Dakota Elevator (Blackwell Canal).
14. Delaware, Lackawanna & Western Ry. Co. (Freight Shed).
18. Detroit & Buffalo Transit Co.
50. Electric Grain Elevator (Above Ohio St.).
49. Erie Coal Dock.
48. Erie Elevator (Ohio & Louisiana St.).
44. Erie Railroad Co. (Freight Sheds).
46. Erie Railroad Co. (Freight Sheds).
47. Erie Railroad Co. (Freight Sheds).
19. Erie & Western Transit Co. (Freight Sheds).
Erie & Western Transit Co. (Freight Sheds).
Evans Elevator (Evans Slip).

4. Exchange Elevato
55. Export Elevator (
22. Great Eastern Ele
21. Hand & Johnson
57. Hauenstein, A. C
26. Hedstrom, E. L.
56. Hurd Brothers.
60. Hurd Brothers.
29. Kellogg Elevator.
31. Keystone Wareho
40. Keystone Wareho
38. Knowlton Wareho
7. Lackawanna Coal
66. Lackawanna Steel
67. Lackawanna Rail
68. Lehigh Valley Rai
61. Lehigh Valley Co
62. Lehigh Valley Ore
58. Lehigh Valley Fre
59. Lehigh Valley Fre
3. Leslie, D. V.
25. Marine Elevator
2. McNeil Lumber C
9. Monarch Elevator
39. Mutual Elevator
43. Mutual Transit C
5. New York Cent
(Freight Sheds).



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Evans Slip).
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(Freight Sheds).
& H. B. Ry. Co.

33. New York Central & H. B. Ry. Co (Freight Sheds).
34. New York Central & H. B. Ry. Co. (Freight Sheds).
35. New York Central & H. B. Ry. Co. (Freight Sheds).
12. Pacific Despatch (Freight Shed).
64. Pennsylvania Ore Dock.
1. Philadelphia & Reading Coal Dock.
41. Pickands-Mather & Co.
63. Pillsbury-Washburn Co.
52. Perots Sons Malting Co.
32. Punxsutawney Iron Co.
65. Rogers-Brown Iron Co.
52. Salmon & Co., Hamilton H.
17. Seaboard Elevator (Opposite Main St.).
65. Susquehanna Iron Co.
16. Terminal Elevator (Ship Canal).
8. Union Elevator.
31. Union Dock & Warehouse.
40. Union Dock & Warehouse.
27. Washburn-Crosby Co. (Ship Canal).
45. West Shore Ore Dock.
33. Western Transit Co. (Freight Shed).
37. Wheeler Elevator.
13. Williams & Co., Frank.

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PORT ARTHUR, ONT.

Atikoken Iron Co., Ltd.—
Capacity per 10 hours 400 tons.

Canadian Northern Coal & Ore Dock Co., Ltd.—
Capacity per 10 hours 7,000 tons.
Depth of water at dock 19 feet.
Can unload boats of any size.
Supt. M. O'Leary.
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleveland, O.

Steel Rail Unloading Docks—
Canadian Northern Railway.

PORT COLBORNE, ONT.

Port Colborne Dock & Coal Co., Ltd.—
Capacity per 10 hours 1,500 tons.
Depth of water at dock 17 feet.
Can handle any length boat.
Supt. T. Lewis.

PORT DALHOUSIE, ONT.

Hutchinson Estate (Fueling Dock)—
Capacity per 10 hours 300 tons.
Depth of water at dock 17 feet.
Supt. Edw. Quackenbush.

PORT HURON, MICH.

Kern Brewing Co.—
Capacity per 10 hours 350 tons.
Depth of water at dock 13 feet 6 inches.

McCollom & Co., I. E.—
Capacity per 9 hours 300 tons.
Depth of water at dock 14 to 15 feet.
Maximum length of boat 250 feet.

Michigan Sulphite Fibre Co.—
Capacity per 10 hours 650 tons.
Depth of water at dock 14 feet.
Maximum length of boat 225 feet.
Supt. E. W. Kiefer.

Miller & Son, J. E.—
Capacity per 10 hours 400 tons.
Depth of water at dock 20 feet.
Can handle any size boats.
Fueling dock
Supt. J. E. Fellows.

Port Huron Gas & Electric Light Co. (Electric Plant)—
Capacity per 10 hours 300 tons.
Depth of water at dock 14 feet.
Can handle boats of 300 feet length.
Supt. J. C. Sloan.

Port Huron Gas & Electric Co. (Gas Plant)—
Capacity per 10 hours 300 tons.
Depth of water at dock 13 feet.
Maximum length of boat 300 feet.
Supt. J. C. Sloan.

Port Huron Salt Co.—
Capacity per 10 hours 500 tons.
Depth of water at dock 17 feet.
Can handle boats of any length.
Supt. Otto Huette.

Port Huron & Duluth Steamship Co.—
Capacity per 10 hours 400 tons.
Depth of water at dock 20 feet.

Port Huron & Sarnia Ferry Co.—
Capacity per 10 hours 150 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.

Thompson Coal Co.—
Capacity per 10 hours 500 tons.

PORT McNICOLL, ONT.

Canadian Pacific Railway Coal Dock—
Capacity per 10 hours 1,500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 500 feet.
Supt. J. Little.

PORT WASHINGTON, WIS.

Milwaukee Northern Electric Ry. Co.—
Capacity per 10 hours 400 tons.
Depth of water at dock 16 feet.
Maximum length of boat 360 feet.
Supt. F. W. Walker.

Port Washington Fuel Co.—
Capacity per 10 hours 400 tons.
Depth of water at dock 16 feet.
Maximum length of boat 215 feet.
Supt. W. C. Mitchell.

QUEBEC, QUEBEC

Canadian Import Co.—
Louise Dock, Louise Basin.
Capacity per 10 hours 1,200 tons each tower.
Depth of water at dock 25 feet.
Supt. D. Burridge.

Dominion Coal Co., Ltd.—
Louise Basin.
Capacity 500 tons per hour.
Depth of water at dock 28 feet.
Maximum length of boat 400 feet.
Supt. William Lambton.

Nova Scotia Steel & Coal Co., Ltd.—
Capacity per 10 hours 1,800 tons.

RACINE, WIS.

Baumann & Murphy—
Capacity per 10 hours hard coal 800 tons.
Capacity per 10 hours soft coal 600 tons.
Maximum length of boat 350 feet.
Depth of water at dock 17 feet 6 inches.

Carroll Coal Co.—
Capacity per 10 hours 750 tons.
Depth of water at dock 15 feet 6 inches.
Maximum length of boat 250 feet.
Supt. Geo. T. Caystill.

Pugh, W. H., Dock No. 1—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.

Pugh, W. H., Dock No. 2—
Capacity per 10 hours 900 tons.
Depth of water at dock 16 feet.

Racine Fuel Co.—
Capacity per 10 hours 700 tons.
Depth of water at dock 16 feet.

Racine Gas Light Co.—
Capacity per 10 hours 800 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.
D. E. Callender, Mgr.

SAGINAW, MICH.

Saginaw Coal Co.—
Consolidated Coal Co., Operators.
Capacity per 10 hours 600 tons.
Depth of water at dock 10 to 12 feet.
Supt. W. E. Goodman.

SARNIA, ONT.

Clark Coal Co.—
Capacity per 10 hours 100 tons.

Garrock, John—
Capacity per 10 hours 300 tons.

Imperial Oil Co., Ltd.—
Capacity per day 400 tons.
Depth of water at dock 19 feet.
Maximum length of boat 300 feet.

Northern Navigation Co.—
Capacity per 10 hours 500 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.
Supt. W. J. McCormack.

SANDUSKY, OHIO

Lower Lake Dock Co. (Short Line)—
2 Car Dumps.
Supt. C. C. Hand.

Baltimore & Ohio—
Coal Trestle.

SAULT STE. MARIE, MICH.

Kemp Coal Co., George (Hard Coal Dock)—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 15 feet.

Kemp Coal Co., George—
Capacity per 10 hours 500 tons each.
Depth of water at dock 22 feet.
Maximum length of boat 400 feet.
Can fuel boats of any length.

Perry, Frank—
Capacity per 10 hours 600 tons.
Depth of water at dock 24 feet.
Can handle any size boat.
Supt. Fred Smith.

Port Royal Dock Co.—
Capacity per 10 hours 1,200 tons.
Depth of water at dock 21 feet.
Maximum length of boat 600 feet.
Supt. J. C. Barnhisel.

Port Royal Dock Co. (Algonquin)—
Dock located above the Locks on the port side.
Capacity per 10 hours 1,800 tons.
Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
J. C. Barnhisel, Mgr.

Union Carbide Co.—
Capacity per 10 hours 1,200 tons.
Depth of water at dock 21 feet.
Maximum length of boat 500 feet.
Supt. Joseph Scales.

SAULT STE. MARIE, ONT.

Algoma Central Railway Dock—
Capacity per 10 hours 2,000 tons.
Depth of water at dock 22 feet.
Can handle any length boat.
Supt. G. A. Montgomery.

Algoma Steel Corporation, Ltd.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. J. A. MacColl.

New Ontario Dock (C. S. S. Lines)—
Capacity per 10 hours 2,000 tons.
Capacity per 10 hours 1,500 tons.
Capacity per 10 hours 500 tons.
Maximum length of boat 400 feet.
Depth of water at dock 20 feet.
Supt. W. F. Gilchriese.
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleveland, O.

Sault Ste. Marie Coal & Wood Co., Ltd.—
Capacity per 10 hours 800 tons.
Depth of water at dock outer end 17 feet.
Depth of water at dock inner end 15 feet.
250 foot boats.
G. G. Farwell, Pres.

SAWYER, WIS.

Lyon Brothers—
Capacity per 10 hours 150 tons.

SHEBOYGAN, WIS.

Sheboygan Coal Co.—
Capacity per 10 hours 700 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 300 feet
Supt. Louis Anderson.

Reiss Coal Co., C. (Dock No. 1)—
Capacity per 10 hours 8,000 tons.
Depth of water at dock 19 feet.

Reiss Coal Co., C. (Dock No. 3)—
Capacity per 10 hours 2,500 tons.
Depth of water at dock 19 feet.

SOREL, QUEBEC

Lavelle, Alfred—
Capacity per 15 hours 1,500 tons.

SOUTH CHICAGO, ILL.

By-Products Coke Corporation—
112th Street.
Capacity per 10 hours 10,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 565 feet.
Supt. Wm. H. Allen, Jr.

Hedstrom & Co., E. L., 95th St.—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 525 feet.
Supt. James Kinney.

Lehigh Valley Coal Co., 100th St.—
Capacity per 10 hours small boats 3,000 tons.
Capacity per 10 hours large boats 4,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 480 feet.
Supt. A. Wallace.

Philadelphia & Reading, 96th St.—
Capacity per 10 hours 2,000 tons.

Illinois Steel Co. (Rail Loading Dock)—
North Slip Dock.
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.

Pittsburgh Coal Co.—
South of So. Chicago Elevators.
Capacity per 10 hours 800 tons.
Depth of water at dock 22 feet.
Maximum length of boat 300 feet.
Supt. C. H. Wallace.

Illinois Steel Co. (Rail Loading Dock)—
South Slip Dock.
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.

ST. JAMES, MICH. (BEAVER ISLAND)

James McCann—
Capacity per 10 hours 250 tons.

ST. CLAIR, MICH.

Baby & Dale—
Depth of water at dock 15 feet.
Maximum length of boat 200 feet.

Diamond Crystal Salt Co.—
Capacity per 10 hours 900 tons.
Depth of water at dock 18 feet.
Maximum length of boat 600 feet.
Supt. Fred W. Moore.

Port Huron Salt Co.—
Capacity per 10 hours 200 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 400 feet.
Supt. L. H. Meno.

ST. IGNACE, MICH.

Chambers Dock—
Capacity per 10 hours 200 tons.

City Dock—
Capacity per 10 hours 250 tons.

Duluth, South Shore & Atlantic Ry. Co.—
Capacity per 10 hours 800 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.

STURGEON BAY, WIS.

City Dock—
Capacity per 10 hours 300 tons.

Green Stone & Quarrying Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.
Maximum beam of boat 38 feet.
Supt. A. O. Green.

Leathem & Smith Towing & Wrecking Co.—
Storage capacity 2,000 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.
Supt. T. H. Smith.

Lyon Brothers—
Capacity per 10 hours 200 tons.

SUPERIOR, WIS.

Berwind Fuel Co. Dock No. 1—
Capacity per 10 hours 11,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. W. K. Link.

Carnegie Fuel Co. No. 1 (Old G. N.)—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 700 feet.
Supt. B. McNamara.

Great Lakes Coal & Dock Co. (P. & R.—
Capacity per 10 hours soft coal 2,500 tons.
Can handle boats of any length.
Supt. M. I. Somershield.

Hanna Dock Co., The M. A.—
Capacity per 10 hours 6,000 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.
Supt. A. E. Botsford.

Island Creek Coal Dock Co., Dock No. 2—
Capacity per 10 hours 2,000 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.
Supt. A. W. Fluegel.

Lehigh Valley Coal Sales Co.—
Tower Bay Slip.
Capacity per 10 hours hard coal 5,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. Emil Emmert.

Morton Salt Co.—
Tower Bay Slip.
Capacity per 10 hours 500 tons.
Depth of water at dock 14 to 15 feet.

Northern Coal & Dock Co.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. J. M. Selleck.

North Western Fuel Co., Dock No. 1—
East side of dock.
Capacity per 10 hours 5,000 tons.
West side of dock No. 1.
Capacity per 10 hours 5,000 tons.
West side of No. 1.
Capacity per 10 hours 6,000 tons.
Depth of water at dock 21 feet.
Supt. B. A. Galleher.

North Western Fuel Co., Dock No. 2—
Capacity per 10 hours 10,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. B. A. Galleher.

North Western Fuel Co., Dock No. 3—
Capacity per 10 hours 3,500 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. B. A. Galleher.

Philadelphia & Reading Coal & Iron Co.—
Capacity per 10 hours 5,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Frank McCreary.

Pittsburgh Coal Co., Dock No. 5—
Capacity per 10 hours 5,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. W. B. Elliott.

Reiss Coal Co., C. No. 3 (Pgh. No. 3)—
Capacity per 10 hours 4,500 tons.
Capacity per 10 hours 1,800 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. H. Beck.

Reiss Coal Co., C. No. 4 (Pgh. No. 4)—
Capacity per 10 hours 1,800 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. H. Beck.

St. Paul & Western Coal Co.—
Capacity per 10 hours 3,000 tons.
Depth of water at dock 18 feet 6 inches.
Can handle any length boat.
Supt. Thomas O'Neill.

Superior Manufacturing Co. (Tower Slip)—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.
Supt. H. E. Speakes.

THESSALON, ONT.

Algoma Custom Smelting Co.—
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.

THREE RIVERS, QUE.

Dominion Coal Co., Ltd.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 40 feet.
Supt. W. C. Haynes.

TOLEDO, OHIO

Asphalt Block Pavement Co. (Sand Dock)—
Capacity per 10 hours 800 tons.
Depth of water at dock 25 feet.
Can handle any size boat.
Supt. George Hayatt.

Delaware, Lackawanna & Western (Upper Dock)—
Capacity per 10 hours 800 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.
Supt. B. F. Beard.

C. H. & D. Ry. Co.—
One Car Dump.
Supt. E. W. Hoffman.

Hocking Valley—
East side of river.
2 Brown hoist car dumps.
Supt. V. H. Palmer.

Toledo Fuel Co.—
Magnolia Street Dock.
Depth of water at dock 19 feet.

Toledo Fuel Co.—
Ohio Central Slip.
Depth of water at dock 18 feet.

T. & O. C.—
One Car Dump.
Supt. C. A. Hoyt.

TORONTO, ONT.

Canada Steamship Lines, Ltd.—
Capacity per 10 hours 450 tons.
Depth of water at dock 14 feet.
Maximum length of boat 250 feet.

Conger Coal Co., Ltd.—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. H. E. Bond.

Milnes Coal Co., Ltd.—
Capacity per 10 hours 350 tons.
Depth of water at dock 20 feet.
Supt. Arthur Purdue.

Burnes & Co., P.—
Capacity per 10 hours 400 tons.

Toronto Electric Light Co., Ltd.—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. Thomas Wright.

Dickson & Eddy—
Capacity per 10 hours 700 tons.
Depth of water at dock 14 feet.
Supt. E. Lowden.

Standard Fuel Co., Ltd.—
Church Street Wharf.
Capacity per 10 hours 1,000 tons.

Rogers & Co., Elias—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.

TRAVERSE CITY, MICH.

Hannah-Lay Co.—
Capacity per 10 hours 250 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.
Supt. H. Morrison.

TWO HARBORS, MINN.

Duluth & Iron Range Ry. Co.—
Capacity per 10 hours 6,000 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 460 feet.
Supt. Fred W. Thias.

Duluth & Iron Range Ry. Co.—
Can load 250 cords of pulp per day.
Supt. J. H. Spurbeck.

TWO RIVERS, WIS.

Reiss Coal Co., C.—
Capacity per 10 hours 1,000 tons.
Depth of water 16½ feet.
Length of boat 400 feet.
Supt. John Schultz.

John Gesell—
Capacity per 10 hours 250 tons.

WASHBURN, WIS.

Northwestern Fuel Co.—
Capacity per 10 hours 4,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 525 feet.
Supt. J. W. Gibson.

WAUKEGAN, ILL.

Waukegan Fuel Co.—
Capacity per 10 hours 900 tons.
Depth of water at dock 18 feet.
Maximum length of boat 380 feet.

Reiss Coal Co., C.—
Capacity per 10 hours 1,250 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 500 feet.
Supt. Thomas Farmer.

Reiss Coal Co., C.—
Capacity per 10 hours 1,800 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 500 feet.
Supt. Thomas Farmer.

WEST FORT WILLIAM, ONT.

Canadian Northern Railway Co.—
Capacity per 10 hours 1,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 600 feet.
Supt. M. O'Leary.

WIARTON, ONT.

Crown Cement Co., Ltd.—
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.

Peninsular Tug & Towing Co.—
Capacity per 10 hours 200 tons.
Depth of water at dock 14 feet.

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Ship Supplies a Specialty

MANITOWOC WISCONSIN

GENERAL DIMENSIONS OF LAKE VESSELS

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
56	Aberdeen (Can.) ...	142	87	Wood.		99'6"	22'	8' 7"			1894
56	Acadian (Can.)	2305	1457	Steel.	3000	246'6"	43'	26' 6"	6	3	1908
373	Adams, Cuyler	5785	4497	Steel.	8300	474'	52'	29'	28	3	1904
87	Adams, Thomas	3784	3187	Steel.	5800	360'	50'	28'	10	4	1892
296	Adriatic	4945	3605	Steel.	7300	420'	52'	28'	23	4	1907
255	Advance (Can.)	1031	769	Wood.	1200	175'	35' 3"	15'	4	1	1884
159	Agassiz, R. L.	6530	4910	Steel.	10200	532'	56'	31'	32	3	1907
2	Agawa (Can.)	3759	2468	Steel.	5400	376'	46'	26'	10	3	1902
254	Agnew, William C. .	6533	4985	Steel.	10300	532'	58'	31'	30	3	1911
261	Alaska (Can.)	986	592	Iron..	1500	212'	32'	13' 5"	5		1871
254	Albright, John J. ...	4805	3298	Steel.	6800	416'	50'	28'	12	4	1900
308	Algonquin (Can.) ..	1806	1172	Steel.	2500	245'	40'	20' 6"	5	2	1888
8	Allegheny	3898	2967	Steel.	5000	350'	46'	30'			1910
405	Alpena	2886	1787	Steel.	3400	356'	47'	26'	18	3	1909
180	Amazon	3702	2680	Steel.	5700	376'	46'	26'	11	3	1897
92	Amazonas	2228	1930	Wood.	3300	295'	44'	21'	8	1	1898
400	America	2171	1748	Steel.	3200	274'	41' 6"	24' 4"	7	3	1889
56	Ames, A. E. (Can.).	1637	1020	Steel.	1800	246'	37'	24'	5	2	1903
296	Ames, Ward	5750	4422	Steel.	10200	532'	56'	31'	32	3	1907
79	Andaste	1573	1256	Steel.	3000	266'	38'	22'	7	1	1892
362	Andrews, Matthew .	7014	5497	Steel.	10200	532'	56'	31'	33	3	1907
79	Angeline	4644	3538	Steel.	6800	414'	50'	28'	13	4	1899
67	Annie Laura	244	189	Wood	425	133'	24' 6"	10' 7"	3	1	1871
53	Arabian (Can.)	1073	770	W.&S.	1200	178'6"	31'	13' 6"		1	1892
296	Arcturus	7159	5744	Steel.	9600	514'	54'	31'	16	4	1906

14	Argo	721	490	Wood	1200	192′	35′	12′ 8″	5	1	1895
394	Arizona	765	601	Wood	1100	189′4″	32′ 6″	13′ 4″	5	1	1868
300	Armour, P. D.	1990	1452	Wood.	2700	264′	40′ 6″	21′	7	1	1889
198	Ashley, J. S.	6361	4789	Steel.	9500	504′	54′	30′	30	4	1909
229	Atikoken (Can.)	2004		Steel.	3100	308′	38′	24′	8	2	1895
350	Atlantis	197	106	Wood.	300	109′2″	23′ 2″	8′			1887
180	Augustus, A. A.	6390	4869	Steel.	9500	504′	54′	30′	30	4	1910
180	Australia	3845	2877	Steel.	5700	376′	48′	26′	11	3	1897
331	Averill, W. J.	1603	1425	Wood.		241′7″	36′ 7″	24′			1884
276	Avon	1417	1147	Wood.	2000	251′1″	35′ 4″	15′ 1″	6		1877
40	Aztec	834	653	Wood	1100	180′	33′ 3″	13′10″			1889
	Barges										
292	Acacia (Can.)	188	153	Wood.	300	102′	20′	9′			1873
311	A—D (Can.)	462		Wood.	700	147′	30′ 1″	13′ 4″			1899
180	Abyssinia	2037	1916	Wood.	3700	288′6″	44′ 6″	19′	9	1	1896
148	Adriatic	915	869	Wood.	1700	202′	34′ 8″	16′ 6″			1889
86	Aldrich, Wm.	177	167	Wood.	350	123′8″	25′ 2″	7′10″			1856
3	Alice	307	291	Wood.	500	137′3″	30′ 3″	10′			1881
247	Aloha	521	516	Wood.	1000	173′	32′ 4″	12′	5	1	1888
46	Anderson, Alex.	738	728	Wood	1500	193′	37′ 2″	13′ 7″	6	1	1892
278	Andrews, Abbie L. (Can.)	278	264	Wood	500	136′	26′	12′			1873
303	Antelope (Can.)	334		Wood	500	138′6″	26′ 3″	11′ 4″			1873
31	Arenac	521	496	Wood	1000	178′6″	34′ 6″	12′ 7″		1	1888
74	Arendal	207	198	Wood.	400	123′4″	26′	9′ 3″			1873
159	Argosy	168	160	Wood.	300	107′	24′	9′			1868
85	Arthur	937	891	Wood.	1800	217′	35′ 3″	14′ 8″	8	1	1871
285	Arthur (Can.)	350	326	Wood.	600	148′	26′	11′ 3″			1893
170	Ashland	991	956	Wood.	1800	218′4″	37′ 8″	15′			1886
33	Athens	2073	1953	Wood.	3800	293′6″	44′ 6″	19′ 1″	9	1	1897
370	Atmosphere	275	261	Wood.	550	135′	25′	11′			1863

GENERAL DIMENSIONS OF LAKE VESSELS

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
56	Aberdeen (Can.) ...	142	87	Wood.		99'6"	22'	8' 7"			1894
56	Acadian (Can.)	2305	1457	Steel.	3000	246'6"	43'	26' 6"	6	3	1908
373	Adams, Cuyler	5785	4497	Steel.	8300	474'	52'	29'	28	3	1904
87	Adams, Thomas	3784	3187	Steel.	5800	360'	50'	28'	10	4	1892
296	Adriatic	4945	3605	Steel.	7300	420'	52'	28'	23	4	1907
255	Advance (Can.)	1031	769	Wood.	1200	175'	35' 3"	15'	4	1	1884
159	Agassiz, R. L.	6530	4910	Steel.	10200	532'	56'	31'	32	3	1907
2	Agawa (Can.)	3759	2468	Steel.	5400	376'	46'	26'	10	3	1902
254	Agnew, William C. .	6533	4985	Steel.	10300	532'	58'	31'	30	3	1911
261	Alaska (Can.)	986	592	Iron..	1500	212'	32'	13' 5"	5		1871
254	Albright, John J. ...	4805	3298	Steel.	6800	416'	50'	28'	12	4	1900
308	Algonquin (Can.) ..	1806	1172	Steel.	2500	245'	40'	20' 6"	5	2	1888
8	Allegheny	3898	2967	Steel.	5000	350'	46'	30'			1910
405	Alpena	2886	1787	Steel.	3400	356'	47'	26'	18	3	1909
180	Amazon	3702	2680	Steel.	5700	376'	46'	26'	11	3	1897
92	Amazonas	2228	1930	Wood.	3300	295'	44'	21'	8	1	1898
400	America	2171	1748	Steel.	3200	274'	41' 6"	24' 4"	7	3	1889
56	Ames, A. E. (Can.).	1637	1020	Steel.	1800	246'	37'	24'	5	2	1903
296	Ames, Ward	5750	4422	Steel.	10200	532'	56'	31'	32	3	1907
79	Andaste	1573	1256	Steel.	3000	266'	38'	22'	7	1	1892
362	Andrews, Matthew .	7014	5497	Steel.	10200	532'	56'	31'	33	3	1907
79	Angeline	4644	3538	Steel.	6800	414'	50'	28'	13	4	1899
67	Annie Laura	244	189	Wood	425	133'	24' 6"	10' 7"	3	1	1871
53	Arabian (Can.)	1073	770	W.&S.	1200	178'6"	31'	13' 6"		1	1892
296	Arcturus	7159	5744	Steel.	9600	514'	54'	31'	16	4	1906

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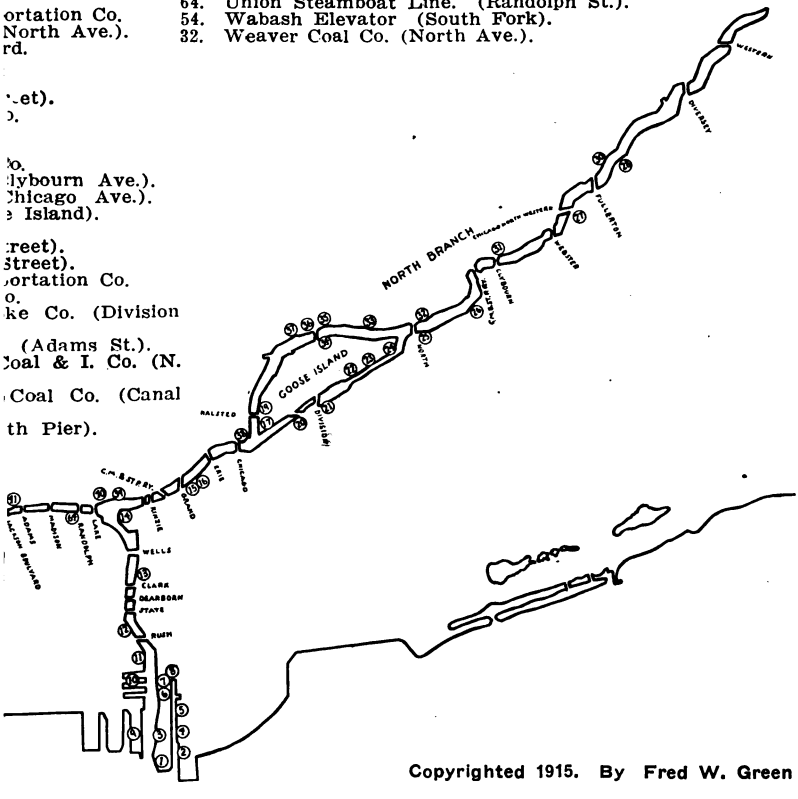
16. Richardson Coal Co., O. S. (Ontario St.).
35. Richardson Coal Co., O. S. (Elston Ave.).
56. Richardson Coal Co., O. S. (24th & Halsted).
20. Richardson Coal Co., O. S. (Division St.).
61. Rock Island Elevator (12th Street).
15. Rutland Transit Co.
51. Santa Fe Elevator.
34. Schenck, S. C. (D. L. & W. Goose Island).
53. Schenck, S. C. (D. L. & W. 35th Street).
30. Street-Chatfield Co. (Fullerton St.).
39. St. Paul Elevator (Fulton St.).
47. Union Elevator (16th Street).
64. Union Steamboat Line. (Randolph St.).
54. Wabash Elevator (South Fork).
32. Weaver Coal Co. (North Ave.).



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GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Barges										
255	Augustus (Can.) ...	802		Wood.	1500	177'5"	39' 6"	15'			1893
402	Aurora	2236	2181	Wood.	3200	290'	41'	21' 6"		1	1887
	Steamers										
299	Baker, Geo. F.	7210	5459	Steel.	11500	580'	58'	32'	36	3	1907
373	Ball Brothers	5733	4438	Steel.	8700	480'	52'	30'	28	3	1905
373	Ball, Frank C.	6909	5459	Steel.	10000	530'	56'	31'	31	3	1906
21	Barlum, John J.	6419	4924	Steel.	9500	504'	54'	30'	30	4	1909
21	Barlum, Thomas ...	5752	4485	Steel.	8500	480'	52'	30'	28	3	1908
373	Barnum, G. G.	6272	4826	Steel.	9500	504'	54'	30'	30	3	1905
170	Barth, L. L.	683	491	Wood.	900	185'	35'	13' 8"			1889
21	Bartow, J. H.	6316	5021	Steel.	9500	504'	54'	30'	30	3	1906
	Battle, Mary (Can.)	275	187	Wood.		130'	26'	9' 4"			1888
382	Beatty, Charles	986	814	Steel.	1800	204'	40'	16'	5	1	1902
56	Beaverton (Can.) ..	2011	1357	Steel.	3000	249'	42'	24'		3	1908
331	Bennington	2285	1393	Steel.	3000	244'	43'	26' 6"			1908
275	Berry, B. F.	6188	6188	Steel.	8500	480'	52'	30'	28	4	1908
373	Berwind, Harry A. .	6634	4927	Steel.	10500	532'	58'	31'	31	3	1908
299	Bessemer, Sir Henry	4321	3293	Steel.	6700	412'	48'	28'	12	4	1896
216	Bethlehem	2633	1902	Steel.		298'	40'	26' 4"			1888
56	Bickerdike (Can.) ..	515	864	Comp.	1250	222'	34'	25' 6"	6	3	1873
237	Bielman, C. F.	2056	1709	Wood.	3000	291'	41'	19' 8"	8	1	1892
30	Bielman, C. F., Jr...	33	23	Steel.		67'6"	14'	7' 3"			1907
114	Binghamton	1954	1549	Iron..		265'	40'	26'			1897
240	Bixby, W. K.	5712	4407	Steel.	8500	480'	52'	30'	14	3	1906

	Steamers										
299	Black, Clarence A. .	4521	3474	Steel.	6900	414′	50′	28′	13	4	1898
180	Block, Joseph	6486	4939	Steel.	10800	549′	56′	31′	34	4	1907
34	Boland, John J.	4924	4530	Steel.	8700	480′	54′	30′	14	3	1907
275	Booth, Edwin L.	4626	3584	Steel.	7000	412′9″	51′ 6″	28′	11	4	1901
296	Bope, H. P.	5750	4422	Steel.	10200	532′	56′	30′	32	3	1907
389	Boston	4184	3283	Steel.	5000	350′	48′	30′		5	1913
324	Boyce, I. J.	368	316	Wood.	550	138′	29′ 6″	11′	3	1	1889
5	Boyce, Mary H.	700	476	Wood.	1200	181′4″	34′ 2″	14′	4	1	1888
31	Bradley, Charles H.	804	624	Wood.	1200	201′	37′	13′ 6″	4	1	1890
40	Bradley, M. A.	5539	4127	Steel.	8200	460′	52′	30′	13	4	1908
165	Bransford	4657	3386	Steel.	6800	414′	50′	28′	12	4	1902
400	Brazil	2186	1655	Steel.	3200	274′	40′	24′ 4″	8	3	1890
403	Briton	2348	1875	Steel.	3300	296′	40′	24′ 6″	8	3	1891
256	Britannic (Can.) ..	428	228	W.& I.		150′8″	25′ 6″	9′ 2″			1866
340	Brittain, R. C.(Can.)	213	149	Wood.	300	142′	24′	8′			1877
146	Brower, A. G.	3582	2778	Steel.	5400	346′	48′	28′	10	4	1902
385	Brown, Harvey H. ..	2673	1874	Steel.	4400	352′	41′ 6″	25′	10	3	1894
39	Brown, J. J. H.	5069	3787	Steel.	7400	432′	52′	28′	24	4	1908
159	Brown, Wm. L.	4904	3879	Steel.	7300	430′	50′	28′ 6″	24	3	1901
146	Brown, W. W.	3582	2778	Steel.	5400	346′	48′	28′	10	4	1902
114	Brownell, Geo. F. ..	2615	1778	Steel.		326′	41′	25′ 6″			1888
200	Buckley, Edward ..	414	313	Wood.	450	154′3″	31′ 7″	10′ 6″			1891
390	Buel, F. R.	951	743	Wood.	1500	194′	35′ 6″	13′ 9″	5		1888
389	Buffalo	3951	3272	Steel.		381′	50′	29′			1899
299	Buffington, Eugene J.	7528	5839	Steel.	11500	580′	58′	32′	36	3	1909
111	Bulgaria	1888	1486	Wood.	2800	280′3″	39′	21′	7	1	1887
299	Bunsen, R. W. E. ..	5181	4012	Steel.	7400	446′	50′	29′ 6″	14	4	1900
331	Burlington	2285	1393	Steel.	3000	244′	43′	26′ 6″			1908
1	Burnham, Geo.	332	219	Wood.	600	149′	29′	10′ 1″	3		1872
180	Butler, Joseph G., Jr.	6588	5174	Steel.	10000	525′	55′	31′	32	3	1905

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
360	Butters, Marshall F.	376	229	Wood.	500	164′	30′ 4″	10′ 6″			1882
400	Byers, A. M.	6364	4841	Steel.	9500	504′	54′	30′	30	4	1910
	Barges										
68	Bacon, Melvin S. ..	614	584	Wood.	1200	182′	33′ 6″	13′ 6″	7	1	1874
284	Baltic	915	869	Wood.	1700	202′	34′ 7″	16′ 6″	6		1890
307	Barlum, J. J.	1184	1125	Wood.	2100	234′	40′ 8″	16′	13		1890
299	Bell, Sir Isaac L. ..	3418	3158	Steel.	5700	366′	44′	26′	11	3	1896
190	Bloom, Nelson	549	521	Wood.	950	197′7″	31′ 2″	11′ 3″	6	1	1863
332	Bottsford, Rhoda ...	499	474	Wood.	850	167′1″	32′ 9″	10′ 3″	5	1	1881
338	Boyce, G. J.	319	303	Wood.	500	137′	30′	10′ 3″			1884
204	Brake, Wm.	318	302	Wood.	550	143′2″	26′ 9″	11′	4	1	1867
178	Brainard, K. (Can.)	398		Wood.	800	169′8″	30′	10′			1871
255	Brighton (Can.)	634	607	Wood.	1000	179′6″	34′ 7″	11′ 4″			1897
31	Brightie	600	570	Wood.	1000	182′	33′ 2″	13′	5	1	1868
74	Brown, Belle	217	207	Wood.	375	124′6″	27′ 4″	9′ 3″			1873
299	Bryn Mawr	4294	3853	Steel.	7500	400′	50′	27′	13	3	1900
90	Buckeye State	518	492	Wood.	900	171′	32′ 7″	11′ 5″			1873
325	Buckhout, B. B. (Can.)	341		Wood.	600	158′2″	28′ 8″	10′	4	1	1873
317	Buffalo	738	711	Wood.	1300	215′8″	35′ 6″	13′ 1″	7	1	1871
74	Butcher Boy	348	308	Wood.	500	147′	29′	11′ 4″			1868
148	Butman, Myron	424	403	Wood.	800	164′3″	31′ 2″	10′ 2″			1885
255	Burma (Can.)	884	885	Wood.	1200	183′6″	39′ 5″	15′	6	1	1901

	Steamers										
47	Cabotia (Can.)	1398	932	Wood.	1900	234′	36′	20′	6	1	1880
56	Cadillac	1263	1068	Steel.	2300	230′	37′	19′	8	1	1892
48	Cadwell, C. W.	592	212	Steel.	Sand	152′	36′	10′ 6″			1911
198	Caldera	6328	4686	Steel.	9500	504′	54′	30′	30	3	1908
49	Calcite	3996	2459	Steel.	5500	416′	54′	29′	20	3	1912
145	Caledonia	2197	1509	Wood.	3200	277′2″	42′	24′ 7″	7	1	1888
321	Calgary (Can.)	1638	1305	Steel.		248′	42′ 6″	20′ 6″			1912
56	Calgarian (Can.) ..	2326	1301	Steel.	3000	244′6″	42′ 6″	26′ 6″	6	3	1912
296	Calumet	4928	3673	Steel.	7300	420′	52′	28′	23	4	1907
188	Canisteo	595	539	Wood.	Sand	182′2″	34′ 3″	12′ 2″	4		1886
56	Canadian (Can.) ...	2214	1444	Steel.	2800	248′6″	43′	26′	6	3	1907
398	Canobie (Can.)	1748	1051	Wood.	2200	252′	38′	21′			1887
296	Canopus	4978	3770	Steel.	8200	464′	50′	28′	14	4	1905
153	Cardinal (Can.)	237		Wood.		121′	24′	10′ 9″			1875
153	Carleton (Can.)	1351	830	Steel.	2000	240′	41′	14′ 2″	5	1	1907
34	Carter, E. D.	6359	5063	Steel.	9500	504′	54′	30′	30	3	1906
122	Carter, W. J.	235	171	Wood.	450	122′	28′	9′ 6″			1886
396	Case	2278	1901	Wood.	3300	286′	42′ 6″	22′	7	1	1889
42	Castalia	3092	2178	Steel.	4500	364′	40′	24′ 6″	11	3	1890
79	Centurion	3401	2728	Steel.	5000	360′	44′ 6″	26′ 6″	10	3	1893
296	Cepheus	4551	3451	Steel.	6900	416′	50′	28′	12	4	1903
296	Cetus	4720	3282	Steel.	6900	416′	50′	28′	12	4	1903
247	Chamberlin, C. W. (Can.)	385	243	Wood.	350	127′	26′ 6″	9′ 7″			1881
270	Champlain	5494	4153	Steel.	8500	444′	56′	30′	25	3	1910
128	Cherokee	1177	636	Wood.	1400	208′7″	35′ 9″	14′	5	1	1889
389	Chicago	3195	2546	Steel.		325′	44′	28′			1901
202	Chipman, Susie	216	164	Wood.	300	122′	26′	9′ 5″			1885
193	Chisholm, Jr., Alva S.	478	259	Wood.	600	150′	35′	8′			1900
79	Choctaw	1573	1256	Steel.	3000	266′	38′	22′ 6″	7	1	1892

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS Keel Length	Beam	Depth	No. Hatchs	No. Comp.	Year Built
	Steamers										
167	Christie, T. S.	517	471	Wood.	800	160′	30′ 3″	12′	4	1	1885
366	Christopher	4260	3137	Steel.	6400	410′	48′	28′	12	4	1901
344	City of Bangor	4202	3058	Steel.	6600	445′	44′ 6″	27′ 8″	13	4	1896
402	City of Berlin	2051	1711	Wood.	3200	298′	41′	21′	16	1	1891
76	City of Mt. Clemens	132	97	Wood.	275	106′6″	23′ 3″	7′ 6″	3	1	1884
374	City of Naples	2340	1973	Wood.	3500	301′	42′ 6″	22′ 8″	9	1	1892
41	City of New York (Can.)	292	199	Wood.	500	136′	27′ 6″	11′ 6″			1863
254	Clarke, E. A. S.	4377	2823	Steel.	6800	416′	50′	28′	22	4	1899
254	Clement, S. M.	5821	4487	Steel.	8500	480′	52′	30′	28	3	1905
193	Clinton	124	62	Wood.	300	96′	25′	6′ 2″			1898
8	Codorus	2165	1802	Steel.		275′	40′	26′			1892
25	Coffinberry, H. D. ..	778	509	Wood.	850	191′4″	33′ 6″	13′ 4″	4	1	1874
103	Colborn, A. R.	251	207	Wood.	400	129′9″	28′	9′ 6″	2	1	1882
299	Cole, Thomas F. ...	7268	5484	Steel.	11500	585′	58′	32′	35	3	1907
299	Colgate, James B. ..	1713	1318	Steel.	3300	308′	38′	24′	12	1	1892
295	Collinge	1601	1280	Wood.	2300	251′6″	38′ 3″	21′ 3″	6	1	1883
119	Collinwood (Can.) ..	4314	3285	Steel.	6300	386′	50′	28′	11	4	1908
241	Colonel	3879	3044	Steel.	5700	356′	50′	28′	10	3	1901
182	Commodore	2082	1927	Wood.		265′	42′	24′ 6″			1875
226	Compton (Can.) ...	1530	936	Wood.	2100	235′	36′	25′	6	1	1882
8	Conemaugh	3898	2967	Steel.	5000	350′	46′	30′			1909
89	Conestoga	1726	1562	Wood.		252′	36′	26′ 3″			1878
373	Congdon, C. A.	6530	4843	Steel.	10200	532′	56′	31′	32	3	1907
84	Conger Coal (Can.) .	511	333	Wood.	850	164′	31′ 4″	13′ 7″	4	1	1882

	Steamers										
114	Cooke, Delos W. ...	3398	2067	Steel.	4300	325′	44′	28′			1897
299	Coralia	4330	3351	Steel.	6000	412′	48′	28′	12	4	1896
299	Corey, Wm. E.	6363	5045	Steel.	10500	549′	56′	31′	33	2	1905
34	Cornelius, Adam E..	4900	3736	Steel.	7300	420′	52′	28′	12	3	1908
299	Cornell	5082	3986	Steel.	7500	454′	50′	28′ 6″	14	6	1900
120	Corrigan, James ...	6971	5482	Steel.	10200	530′	56′	31′	32	3	1908
180	Corsica	2364	1786	Steel.	3200	299′	40′	24′ 6″	8	3	1888
299	Cort, Henry	2234	1571	Steel.	3500	320′	42′	25′	8	1	1892
106	Corunna (Can.)	1256	775	Steel.	2000	230′	34′	21′		4	1891
296	Corvus	4551	3451	Steel.	6900	416′	50′	28′	12	4	1903
146	Coulby, Harry	6495	4939	Steel.	10500	549′	56′	31′	34	3	1906
146	Cowle, John B.	6614	5134	Steel.	10000	525′	58′	31′	31	3	1910
87	Craig, Geo. L.	3762	3130	Steel.	5800	360′	50′	28′	10	4	1903
299	Crawford, Geo. G. ..	7971	6096	Steel.	12000	585′	60′	32′	36	4	1907
159	Crawford, W. D.	6385	4899	Steel.	9500	504′	54′	30′	16	4	1914
338	Cream City	570	416	Wood.	850	166′	32′	12′ 6″	4	1	1884
366	Crerar, John	1550	955	Steel.	2600	241′	41′	18′	6	3	1903
299	Crescent City	4213	3675	Steel.	5800	406′	48′	28′	12	4	1897
296	Crete	6189	4764	Steel.	8500	480′	52′	30′	28	4	1907
357	Crowe, Geo. R.(Can.)	2939	2346	Steel.	5000	324′	43′	27′	9	4	1907
254	Cuddy, Loftus	6829	5361	Steel.	10000	525′	55′	31′	31	3	1906
165	Curry, S. S.	3931	2901	Steel.	6500	432′	45′	26′	13	4	1893
296	Cygnus	4725	3393	Steel.	6900	416′	50′	28′	12	4	1903
	Barges										
379	Calkins, Bertie(Can.)	227		Wood.	450	134′	28′	9′			1874
57	Calvert, W. S.(Can.)	543		Wood.		191′	29′	14′ 4″			1874
276	Carney, Fred	361	342	Wood.	700	152′2″	30′ 4″	10′ 6″			1883
9	Carrier	187	177	Wood.	375	123′	26′	8′ 6″			1865
148	Carpenter, A. A. ...	540	524	Wood	1000	165′6″	33′	12′ 2″			1881
299	Carrington	3180	2861	Steel.	5500	352′	44′	26′	11	3	1897

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Barges										
170	Case, J. I.	827	786	Wood.	1400	208′	34′ 6″	14′ 6″	6		1874
341	Casey, Lyman (Can.)	277		Wood.	550	136′	26′	13′			1867
236	Cataract (Can.)	240	198	Wood.	300	105′	24′	10′ 5″			1874
79	Chattanooga	2339	2266	Wood.	4000	308′	45′	21′ 6″	10	3	1898
322	Chickamauga	2472	2399	Wood.	4300	322′	45′	21′ 6″	11	3	1898
92	Chieftain	2704	2692	Wood.	4900	342′	46′	21′ 6″	11	1	1902
170	City of Chicago	327	310	Wood.	600	140′2″	30′ 2″	11′ 6″			1861
338	City of Sheboygan .	259	210	Wood.	500	135′2″	27′ 4″	10′			1871
234	Coates, L. B.	189	179	Wood.	350	116′1″	25′ 6″	8′ 1″			1874
97	Cobalt (Can.)	295		Wood.	500	138′	26′	10′			1875
190	Clint, D. K.	729	692	Wood.	1200	168′6″	32′	18′ 8″			1872
98	Commodore	550	565	Wood	1000	170′8″	33′ 8″	11′ 8″	5	1	1880
176	Connelly Bros.	751	694	Wood.	1700	201′	36′	13′ 6″	6	1	1896
296	Constitution	3847	3629	Steel.	6500	438′	44′	26′	14	4	1897
329	Cook, Mary Ellen ..	152	126	Wood.	300	118′	25′ 6″	8′			1875
74	Cora A.	370	362	Wood.	700	146′4″	31′ 6″	11′ 2″	4	1	1899
247	Corisande (Can.) ..	276		Wood.	550	137′	26′	11′			1873
299	Corliss, Geo. H.	3259	3124	Steel.	5500	352′	44′	26′	11	3	1896
365	Corning, Ida	444	422	Wood.	800	168′	31′ 3″	10′ 9″			1881
376	Corry, Mike	380	361	Wood	650	153′6″	29′ 3″	10′ 8″			1874
193	Cutler, Dwight G. ..	468	468	Wood	1100	165′	36′	12′			1897
192	Cyrenian (Can.) ...	376	293	Wood.	700	135′	26′	10′ 6″			1879
	Steamers										
209	Dahlke, H.	442	374	Steel.	Sand	152′	34′ 6″	10′ 6″			1908

	Steamers										
366	Dalton, H. G.	1614	919	Steel.	2600	241′	41′	18′	6	3	1903
366	Davidson, A. D.	1640	987	Steel	2600	241′	41′	18′	6	3	1903
373	Davidson, James E.	6206	4943	Steel.	9500	504′	54′	30′	30	3	1905
34	Davidson, Louis R. .	6356	4996	Steel.	9700	504′	56′	30′	30	4	1912
284	Davidson, Thomas .	2226	1714	Wood	3000	286′	41′ 6″	20′ 4″	8		1888
94	Davock, Wm. B.	4468	3246	Steel.	7200	420′	52′	28′	12	4	1907
88	Desmond	456	355	Wood.	Sand	149′	30′ 6″	9′ 6″			1892
8	Delaware	3901	3250	Steel.		350′	46′	30′			1905
146	Denmark	5448	4434	Steel.	8400	440′	56′	28′	24	4	1909
398	Derbyshire, Senator (Can.)	1246	987	Wood	2200	220′	40′	18′	6	1	1897
203	Dewar, J. D.	52	41	Wood		72′	18′	16′			1885
299	Dickson, Wm. B. ...	7568	5712	Steel.	11500	580′	58′	32′	36	3	1910
240	Dimmick, J. K.	4651	3547	Steel.	6800	423′	51′	28′	13	4	1900
299	Dinkey, Alva C.	7514	5822	Steel.	11500	580′	58′	32′	36	3	1909
24	Donaldson, John A. .	4315	3110	Steel.	6300	380′	50′	28′	20	3	1908
343	Donaldson, J. P. ...	521	425	Wood.	700	185′	30′ 4″	12′	4	1	1880
56	Donnacona (Can.) ..	1906	1222	Steel.	3100	245′	42′ 4″	20′ 8″		2	1900
159	Donner, W. H.	6311	4843	Steel.	9500	504′	54′	30′	16	4	1914
56	Doric (Can.)	2359	1452	Steel.	2800	247′	43′	25′ 5″	6	2	1903
134	Douglas	230	123	Wood.	225	120′3″	22′10″	8′ 6″			1882
110	Doville, R. E.	199	135	Steel.		116′	28′	7′			1905
2	Drummond, T. J. (Can.)	2201	1664	Steel.	3300	247′9″	43′ 8″	22′ 8″	6	3	1910
389	Duluth	4623	3785	Steel.		381′	50′	30′			1903
52	Duncan, John (Can.)	1517	924	Wood	1800	225′2″	37′ 8″	20′ 3″	6		1891
56	Dundee (Can.)	2278	1531	Steel.	3000	250′	43′	23′ 5″		3	1907
56	Dunelm (Can.)	2318	1480	Steel.	3000	250′	43′ 1″	26′ 6″			1907
366	Dunham, James S. ..	4795	3644	Steel.	7300	420′	52′	28′	23	4	1906
146	Dunn, John, Jr.	6160	4802	Steel.	10000	504′	58′	30′	15	3	1907
146	Durston, J. F.	4791	3500	Steel.	7800	432′	52′	28′	23	3	1908

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. Hatchs	No. Comp.	Year Built
	Steamers										
254	Dustin, A. C.	7316	5609	Steel.	10200	525′	58′	31′	32	3	1913
127	Dwyer, W. H. (Can.)	1770	1142	Steel.	2800	250′	42′ 9″	18′ 7″		3	1913
	Barges										
137	Davis, Lyman M. (Can.)	198		Wood.	350	123′	27′ 2″	9′ 4″			1873
60	Day, Eliza	139	132	Wood.	250	97′6″	25′ 6″	8′ 4″			1869
343	Dayton	462	439	Wood.	650	184′2″	30′	9′ 8″	4	1	1871
31	Delaware	524	487	Wood.	1000	173′6″	30′ 4″	13′	5	1	1868
170	Delta	269	266	Wood.	500	134′	28′ 9″	10′ 3″	3		1890
303	Dobbins, D. P. (Can.)	447		Wood.	900	162′3″	31′ 6″	12′ 2″			1863
349	Dundee (Can.)	262	225	Wood.	500	125′2″	23′ 6″	10′			1870
255	Dunmore (Can.)	675	590	Wood.	1100	182′5″	34′ 9″	11′ 9″			1895
327	Dunn, S. H. (Can.)..	458		Wood.	825	164′8″	26′ 8″	12′ 7″			1877
	Steamers										
299	Eads, James B.	3746	2970	Steel.	5000	400′	42′10″	28′	12	3	1894
275	Earling, E. J.	6657	5140	Steel.	10000	525′	55′	31′	32	3	1906
244	Easton (Can.)	1757	1129	Steel.	2800	250′	42′ 6″	18′ 6″	6	3	1912
265	Eddy, Charles A. ..	2075	1552	Wood.	3200	281′	40′ 8″	20′ 6″	7	1	1889
34	Eddy, Selwyn	2846	2164	Steel.	4400	343′	42′	25′	9	1	1893
299	Edenborn, Wm.	5910	4531	Steel.	8300	478′	52′	30′	15	6	1900
244	Edmonton (Can.) ..	1982	1340	Steel.	3000	249′	42′ 8″	23′	6	3	1906
406	Edwards, Wm.	1272	973	Wood.	1500	226′	35′ 9″	20′	6		1879
56	Egan, Wiley M.(Can.)	1733		Wood.	2500	252′	39′ 8″	21′ 6″	7	1	1887

	Steamers										
296	Elba	4963	3621	Steel.	7300	420′	52′	28′	23	4	1907
159	Elphicke, Mary C.	4904	3879	Steel.	7300	430′	50′	28′ 6″	24	3	1901
251	Ellen	349	194	Wood.	Sand	120′	30′ 6″	8′			1893
299	Ellwood, Isaac L.	5904	4526	Steel.	8300	478′	52′	30′	15	6	1900
56	Emperor (Can.)	7031		Steel.	10000	525′	56′	31′	30	5	1911
299	Empire City	4118	3268	Steel.	6300	405′	48′	28′	12	4	1897
56	Empress of Midland (Can.)	2223	1629	Steel.	3200	252′	42′ 6″	25′ 6″	7	3	1907
56	Empress of Ft. William (Can.)	2101	1382	Steel.	3000	250′	48′	25′	6	4	1908
24	England, R. W.	3887	2935	Steel.	5700	356′	50′	28′	18	4	1904
299	Ericsson, John	3200	2378	Steel.	5800	390′	48′	27′	11	4	1896
	Barges										
374	Eddy, John F.	1678	1252	Wood.	2600	259′	37′ 6″	20′			1886
242	Edwards, J. R.	435	413	Wood.	800	175′2″	30′ 6″	12′ 2″	5	1	1883
217	Elida	192	182	Wood.	250	111′8″	24′ 4″	10′			1863
311	Ewen, Frank D. (Can.)	882		Wood.	1750	202′	37′	16′			1888
314	Exile	387	368	Wood	700	152′6″	29′ 8″	11′ 2″	4		1867
	Steamers										
56	Fairfax (Can.)	1424	984	Wood.	2100	209′	38′	19′			1890
255	Fairmount (Can.)	1895	1184	Steel.	3000	248′6″	42′	20′ 6″	5	2	1903
299	Fairbairn, Sir Wm.	4219	3181	Steel.	6000	414′	45′ 6″	28′	12	4	1896
299	Farrell, James A.	7705	5967	Steel.	11500	580′	58′	32′	34	3	1912
299	Filbert, Wm. J.	7962	6189	Steel.	12000	585′	60′	32′	36	4	1907
14	Fisher, Erwin L.	1184	805	Steel.	2000	220′	40′	17′	5	1	1910
159	Fitch, Wm. F.	3629	2632	Steel.	5000	346′	48′	28′	10	3	1902
300	Fitzgerald, R. P.	1681	1175	Wood.	2300	256′	38′	20′	7	1	1887
366	Fitzgerald, Wm. E.	5300	3701	Steel.	7300	420′	52′	28′	23	4	1906
159	Flagg, G. A.	3062	2128	Steel.	4300	318′	42′	26′ 6″	9	3	1901

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
374	Fleetwood	1687	1175	Wood.	2300	265'6"	40' 6"	19' 4"			1887
266	Fletcher, F. W.	495	314	Wood.	600	161'	32'	11' 3"	3	1	1891
252	Flower, Roswell P..	1593	1165	Wood.	2400	264'	38'	20' 6"	1	1	1887
126	Follette, James W. .	756	538	Wood.		212'3"	35' 6"	12'	5	1	1881
269	Ford, J. C.	609	710	Wood.	950	172'	33'	12'	4	1	1889
56	Fordonian (Can.) ..	2367	1905	Steel.	3400	250'	42' 8"	26' 6"	7	4	1912
15	Foster, Parks	1729	1475	Steel.	2900	262'	38'	23'	7	3	1889
365	Foster, I. N.	355	277	Wood.	500	134'9"	26'	11' 6"			1872
2	Franz, W. C. (Can.)	3428	2029	Steel.	5600	346'	48'	28'	10	3	1901
159	French, G. Watson .	3883	2725	Steel.	5600	356'	50'	28'	18	3	1903
299	Frick, Henry C.	6490	5016	Steel.	10500	549'	56'	31'	34	2	1905
79	Frontenac	2003	1676	Steel.	3200	270'	40'	24'	7	3	1889
166	Fryer, Robt. R.(Can.)	1810	1451	Wood.	3100	281'	41' 4"	20'	8	1	1888
299	Fulton, Robert	4219	3181	Steel.	6000	414'	45' 6"	28'	12	4	1896
	Barges										
128	Fassett, Theo. S. ...	548	521	Wood.	1000	186'8"	31' 9"	11'	5	1	1881
74	Fearless	165	156	Wood.	300	120'	24'	8'			1867
170	Filer, D. L.	357	339	Wood.	600	156'6"	30'	10'	4		1871
118	Filer, Grace M. (Can.)	215		Wood.	450	128'	27'	9'			1874
297	Filmore, C. J.	410	389	Wood.	750	161'	31'	10' 3"	4	1	1889
133	Flint, Sam	499	474	Wood.	800	167'7"	34' 1"	12' 7"	4	1	1868
321	Ford River (Can.) ..	299		Wood.	550	143'	29'	10' 8"			1879
196	Francombe, J. A. ...	658	625	Wood.	1300	180'	36'	13'	5	1	1889

	Steamers										
366	Dalton, H. G.	1614	919	Steel.	2600	241′	41′	18′	6	3	1903
366	Davidson, A. D.	1640	987	Steel	2600	241′	41′	18′	6	3	1903
373	Davidson, James E.	6206	4943	Steel.	9500	504′	54′	30′	30	3	1905
34	Davidson, Louis R. .	6356	4996	Steel.	9700	504′	56′	30′	30	4	1912
284	Davidson, Thomas .	2226	1714	Wood	3000	286′	41′ 6″	20′ 4″	8		1888
94	Davock, Wm. B.	4468	3246	Steel.	7200	420′	52′	28′	12	4	1907
88	Desmond	456	355	Wood.	Sand	149′	30′ 6″	9′ 6″			1892
8	Delaware	3901	3250	Steel.		350′	46′	30′			1905
146	Denmark	5448	4434	Steel.	8400	440′	56′	28′	24	4	1909
398	Derbyshire, Senator (Can.)	1246	987	Wood	2200	220′	40′	18′	6	1	1897
203	Dewar, J. D.	52	41	Wood		72′	18′	16′			1885
299	Dickson, Wm. B. ...	7568	5712	Steel.	11500	580′	58′	32′	36	3	1910
240	Dimmick, J. K.	4651	3547	Steel.	6800	423′	51′	28′	13	4	1900
299	Dinkey, Alva C.	7514	5822	Steel.	11500	580′	58′	32′	36	3	1909
24	Donaldson, John A. .	4315	3110	Steel.	6300	380′	50′	28′	20	3	1908
343	Donaldson, J. P. ...	521	425	Wood.	700	185′	30′ 4″	12′	4	1	1880
56	Donnacona (Can.) ..	1906	1222	Steel.	3100	245′	42′ 4″	20′ 8″		2	1900
159	Donner, W. H.	6311	4843	Steel.	9500	504′	54′	30′	16	4	1914
56	Doric (Can.)	2359	1452	Steel.	2800	247′	43′	25′ 5″	6	2	1903
134	Douglas	230	123	Wood.	225	120′3″	22′10″	8′ 6″			1882
110	Doville, R. E.	199	135	Steel.		116′	28′	7′			1905
2	Drummond, T. J. (Can.)	2201	1664	Steel.	3300	247′9″	43′ 8″	22′ 8″	6	3	1910
389	Duluth	4623	3785	Steel.		381′	50′	30′			1903
52	Duncan, John (Can.)	1517	924	Wood	1800	225′2″	37′ 8″	20′ 3″	6		1891
56	Dundee (Can.)	2278	1531	Steel.	3000	250′	43′	23′ 5″		3	1907
56	Dunelm (Can.)	2318	1480	Steel.	3000	250′	43′ 1″	26′ 6″			1907
366	Dunham, James S. ..	4795	3644	Steel.	7300	420′	52′	28′	23	4	1906
146	Dunn, John, Jr.	6160	4802	Steel.	10000	504′	58′	30′	15	3	1907
146	Durston, J. F.	4791	3500	Steel.	7800	432′	52′	28′	23	3	1908

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. H'tchs.	No. Comp.	Year Built
	Steamers										
345	Green, C. H.	694	504	Wood.	950	192'6"	33'	12' 8"	4	1	1881
115	Greene, M. T.	523	422	Wood.	750	155'	30'	11' 6"	4	1	1887
19	Griffin	1879	1526	Steel.	2700	266'	38'	24'	8	3	1891
44	Groh, Mary	139	69	Wood.	Sand	112'	22'	8'			1873
209	Gunnell, E.	688	468	Steel.	Sand	170'	36'	10'			1912
	Barges										
255	Gaskin, John (Can.).	521	487	Wood.	900	165'8"	31' 4"	12'			1881
215	Gawn, Thomas	549	522	Wood.	1000	170'8"	31' 7"	13' 6"	6	1	1872
129	Genoa	730	694	Wood.	1200	188'9"	34' 1"	13' 2"	5	1	1873
65	Georger, F. A. (Can.)	825	784	Wood.	1500	200'6"	35' 4"	15'			1874
136	Godfrey, Jermiah ..	653	620	Wood.	1250	177'	34' 9"	14'	6	1	1881
307	Golden Age	1846	1763	Wood.	3100	278'	37' 8"	20'	8	1	1882
31	Goshawk	501	461	Wood.	950	180'	32' 4"	11' 6"	5	1	1866
92	Grampian	844	802	Wood.	2200	218'	38'	13' 2"		1	1894
92	Granada	1729	1643	Wood.	3200	247'	40'	21' 6"		1	1895
10	Grant, Levi	204	194	Wood.	400	127'	27'	8'			1872
37	Grover, Maurice B. .	2147	1986	Wood.	3300	281'4"	40' 6"	23' 9"			1887
18	Guido (Can.)	135		Wood.	250	114'	24'	8'			1856
	Steamers										
311	Hackett, J. H. (Can.)	117		Wood.		87'9"	21' 2"	8' 8"			1901
311	Hackett, Wm. (Can.)	126		Wood.		98'7"	20'	8'			1900
56	Haddington	1603	1010	Steel.	3000	243'	42'	18'	6	3	1904
357	Hagarty, J. H. G. (Can.)	7462	5704	Steel.	10000	529'	58'	31'	16	6	1914

	Steamers											
281	Hall (Can.)	247	136	Comp.	300	102'8"	22' 5"	7' 4"			1889
156	Hall, Henry B.	1152	962	Wood.	1500	213'	35'	19'	6	1	1881
178	Hall, Stephen C. (Can.)	511	307	Wood.	550	161'2"	30' 5"	10' 6"	4	1	1880
56	Hamiltonian (Can.)	2346	1277	Steel.	3000	244'	42' 6"	26' 6"	6	3	1912
180	Hanna, D. R.	7023	5491	Steel.	10200	532'	56'	32'	32	3	1906
322	Hanna, H. M., Jr. ..	6204	4689	Steel.	9000	504'	54'	30'	15	3	1908
159	Hanna, Leonard C. .	6356	4922	Steel.	9500	504'	54'	30'	30	3	1905
254	Hanna, M. A.	4661	3116	Steel.	6800	410'	50'	28'	22	4	1899
82	Harlow	575	482	Wood.	1000	194'	35'	10' 6"	5	1	1891
373	Hart, Frank W.	4307	3374	Steel.	6300	380'	50'	28'	11	4	1902
373	Hartwell, Fred G. ..	6223	4865	Steel.	10000	504'	58'	30'	15	3	1908
299	Harvard	5054	4061	Steel.	7500	454'	50'	28' 6"	14	6	1900
404	Harvester, The	7188	5690	Steel.	10200	525'	58'	31'	32	3	1911
48	Harvey, F. E.	355	288	Wood.	Sand	133'	31'	7' 6"			1899
331	Haskell, Wm. A. ..	1530	1440	Wood.		240'	37'	25'			1884
209	Hausler, M. G.	609	414	Steel.	Sand	144'	35'	10'			1910
32	Havey, Hugh R.	474	389	Wood.	800	173'6"	30' 7"	12'	4	1	1880
165	Hawgood, H. B.	4655	3386	Steel.	6800	414'	50'	28'	12	4	1903
238	Hazard, W. A.	372	267	Wood.	500	154'	29'	11' 8"	3		1890
397	Hebard, Chas. S. ...	6291	4854	Steel.	9500	504'	54'	30'	30	3	1906
156	Hecla	1110	909	Wood.	1800	224'	34' 3"	17' 6"	6	1	1882
373	Heffelfinger, F. T. ..	4897	3630	Steel.	7000	430'	50'	28' 6"	13	6	1901
377	Heiden, Charles ...	717	446	Steel.	Sand	160'	35'	14'			1913
15	Helena	2083	1579	Wood.	3200	275'	42'	20'	8	1	1888
174	Heien C.	622	460	Wood.	900	186'	35'	12' 4"	5	1	1874
296	Hemlock	4796	3501	Steel.	7300	420'	52'	28'	23	4	1907
211	Hennipin	990	639	Wood.	1200	208'8"	35'	12' 4"			1888
167	Hettler, H. H.	789	536	Wood.	1200	210'	34' 7"	13' 3"	5	1	1890
171	Hickley	131	34	Wood		108'	24'	8'			1901
299	Hill, James J.	6025	4578	Steel.	8300	478'	52'	30'	15	6	1900

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Barges										
170	Case, J. I.	827	786	Wood.	1400	208′	34′ 6″	14′ 6″	6		1874
341	Casey, Lyman (Can.)	277		Wood.	550	136′	26′	13′			1867
236	Cataract Can.)	240	198	Wood.	300	105′	24′	10′ 5″			1874
79	Chattanooga	2339	2266	Wood.	4000	308′	45′	21′ 6″	10	3	1898
322	Chickamauga	2472	2399	Wood.	4300	322′	45′	21′ 6″	11	3	1898
92	Chieftain	2704	2692	Wood.	4900	342′	46′	21′ 6″	11	1	1902
170	City of Chicago	327	310	Wood.	600	140′2″	30′ 2″	11′ 6″			1861
338	City of Sheboygan .	259	210	Wood.	500	135′2″	27′ 4″	10′			1871
234	Coates, L. B.	189	179	Wood.	350	116′1″	25′ 6″	8′ 1″			1874
97	Cobalt (Can.)	295		Wood.	500	138′	26′	10′			1875
190	Clint, D. K.	729	692	Wood.	1200	168′6″	32′	18′ 8″			1872
98	Commodore	550	565	Wood	1000	170′8″	33′ 8″	11′ 8″	5	1	1880
176	Connelly Bros.	751	694	Wood.	1700	201′	36′	13′ 6″	6	1	1896
296	Constitution	3847	3629	Steel.	6500	438′	44′	26′	14	4	1897
329	Cook, Mary Ellen ..	152	126	Wood.	300	118′	25′ 6″	8′			1875
74	Cora A.	370	362	Wood.	700	146′4″	31′ 6″	11′ 2″	4	1	1899
247	Corisande (Can.) ..	276		Wood.	550	137′	26′	11′			1873
299	Corliss, Geo. H.	3259	3124	Steel.	5500	352′	44′	26′	11	3	1896
365	Corning, Ida	444	422	Wood.	800	168′	31′ 3″	10′ 9″			1881
376	Corry, Mike	380	361	Wood	650	153′6″	29′ 3″	10′ 8″			1874
193	Cutler, Dwight G. ..	468	468	Wood	1100	165′	36′	12′			1897
192	Cyrenian (Can.) ...	376	293	Wood.	700	135′	26′	10′ 6″			1879
	Steamers										
209	Dahlke, H.	442	374	Steel.	Sand	152′	34′ 6″	10′ 6″			1908

	Steamers										
296	Elba	4963	3621	Steel.	7300	420′	52′	28′	23	4	1907
159	Elphicke, Mary C. ..	4904	3879	Steel.	7300	430′	50′	28′ 6″	24	3	1901
251	Ellen	349	194	Wood.	Sand	120′	30′ 6″	8′			1893
299	Ellwood, Isaac L. ..	5904	4526	Steel.	8300	478′	52′	30′	15	6	1900
56	Emperor (Can.)	7031		Steel.	10000	525′	56′	31′	30	5	1911
299	Empire City	4118	3268	Steel.	6300	405′	48′	28′	12	4	1897
56	Empress of Midland (Can.)	2223	1629	Steel.	3200	252′	42′ 6″	25′ 6″	7	3	1907
56	Empress of Ft. William (Can.)	2101	1382	Steel.	3000	250′	48′	25′	6	4	1908
24	England, R. W.	3887	2935	Steel.	5700	356′	50′	28′	18	4	1904
299	Ericsson, John	3200	2378	Steel.	5800	390′	48′	27′	11	4	1896
	Barges										
374	Eddy, John F.	1678	1252	Wood.	2600	259′	37′ 6″	20′			1886
242	Edwards, J. R.	435	413	Wood.	800	175′2″	30′ 6″	12′ 2″	5	1	1883
217	Elida	192	182	Wood.	250	111′8″	24′ 4″	10′			1863
311	Ewen, Frank D. (Can.)	882		Wood.	1750	202′	37′	16′			1888
314	Exile	387	368	Wood	700	152′6″	29′ 8″	11′ 2″	4		1867
	Steamers										
56	Fairfax (Can.)	1424	984	Wood.	2100	209′	38′	19′			1890
255	Fairmount (Can.) ..	1895	1184	Steel.	3000	248′6″	42′	20′ 6″	5	2	1903
299	Fairbairn, Sir Wm. .	4219	3181	Steel.	6000	414′	45′ 6″	28′	12	4	1896
299	Farrell, James A. ..	7705	5967	Steel.	11500	580′	58′	32′	34	3	1912
299	Filbert, Wm. J.	7962	6189	Steel.	12000	585′	60′	32′	36	4	1907
14	Fisher, Erwin L. ...	1184	805	Steel.	2000	220′	40′	17′	5	1	1910
159	Fitch, Wm. F.	3629	2632	Steel.	5000	346′	48′	28′	10	3	1902
300	Fitzgerald, R. P. ...	1681	1175	Wood.	2300	256′	38′	20′	7	1	1887
366	Fitzgerald, Wm. E. .	5300	3701	Steel.	7300	420′	52′	28′	23	4	1906
159	Flagg, G. A.	3062	2128	Steel.	4300	318′	42′	26′ 6″	9	3	1901

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Ligth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
254	Dustin, A. C.	7316	5609	Steel.	10200	525′	58′	31′	32	3	1913
127	Dwyer, W. H. (Can.)	1770	1142	Steel.	2800	250′	42′ 9″	18′ 7″		3	1913
	Barges										
137	Davis, Lyman M. (Can.)	198		Wood.	350	123′	27′ 2″	9′ 4″			1873
60	Day, Eliza	139	132	Wood.	250	97′6″	25′ 6″	8′ 4″			1869
343	Dayton	462	439	Wood.	650	184′2″	30′	9′ 8″	4	1	1871
31	Delaware	524	487	Wood.	1000	173′6″	30′ 4″	13′	5	1	1868
170	Delta	269	266	Wood.	500	134′	28′ 9″	10′ 3″	3		1890
303	Dobbins, D. P. (Can.)	447		Wood.	900	162′3″	31′ 6″	12′ 2″			1863
349	Dundee (Can.)	262	225	Wood.	500	125′2″	23′ 6″	10′			1870
255	Dunmore (Can.)	675	590	Wood.	1100	182′5″	34′ 9″	11′ 9″			1895
327	Dunn, S. H. (Can.)..	458		Wood.	825	164′8″	26′ 8″	12′ 7″			1877
	Steamers										
299	Eads, James B.	3746	2970	Steel.	5000	400′	42′10″	28′	12	3	1894
275	Earling, E. J.	6657	5140	Steel.	10000	525′	55′	31′	32	3	1906
244	Easton (Can.)	1757	1129	Steel.	2800	250′	42′ 6″	18′ 6″	6	3	1912
265	Eddy, Charles A. ..	2075	1552	Wood.	3200	281′	40′ 8″	20′ 6″	7	1	1889
34	Eddy, Selwyn	2846	2164	Steel.	4400	343′	42′	25′	9	1	1893
299	Edenborn, Wm.	5910	4531	Steel.	8300	478′	52′	30′	15	6	1900
244	Edmonton (Can.) ..	1982	1340	Steel.	3000	249′	42′ 8″	23′	6	3	1906
406	Edwards, Wm.	1272	973	Wood.	1500	226′	35′ 9″	20′	6		1879
56	Egan, Wiley M.(Can.)	1733		Wood.	2500	252′	39′ 8″	21′ 6″	7	1	1887

	Steamers										
296	Elba	4963	3621	Steel.	7300	420′	52′	28′	23	4	1907
159	Elphicke, Mary C. ..	4904	3879	Steel.	7300	430′	50′	28′ 6″	24	3	1901
251	Ellen	349	194	Wood.	Sand	120′	30′ 6″	8′			1893
299	Ellwood, Isaac L. ..	5904	4526	Steel.	8300	478′	52′	30′	15	6	1900
56	Emperor (Can.)	7031		Steel.	10000	525′	56′	31′	30	5	1911
299	Empire City	4118	3268	Steel.	6300	405′	48′	28′	12	4	1897
56	Empress of Midland (Can.)	2223	1629	Steel.	3200	252′	42′ 6″	25′ 6″	7	3	1907
56	Empress of Ft. William (Can.)	2101	1382	Steel.	3000	250′	48′	25′	6	4	1908
24	England, R. W.	3887	2935	Steel.	5700	356′	50′	28′	18	4	1904
299	Ericsson, John	3200	2378	Steel.	5800	390′	48′	27′	11	4	1896
	Barges										
374	Eddy, John F.	1678	1252	Wood.	2600	259′	37′ 6″	20′			1886
242	Edwards, J. R.	435	413	Wood.	800	175′2″	30′ 6″	12′ 2″	5	1	1883
217	Elida	192	182	Wood.	250	111′8″	24′ 4″	10′			1863
311	Ewen, Frank D. (Can.)	882		Wood.	1750	202′	37′	16′			1888
314	Exile	387	368	Wood	700	152′6″	29′ 8″	11′ 2″	4		1867
	Steamers										
56	Fairfax (Can.)	1424	984	Wood.	2100	209′	38′	19′			1890
255	Fairmount (Can.) ..	1895	1184	Steel.	3000	248′6″	42′	20′ 6″	5	2	1903
299	Fairbairn, Sir Wm. .	4219	3181	Steel.	6000	414′	45′ 6″	28′	12	4	1896
299	Farrell, James A. ..	7705	5967	Steel.	11500	580′	58′	32′	34	3	1912
299	Filbert, Wm. J.	7962	6189	Steel.	12000	585′	60′	32′	36	4	1907
14	Fisher, Erwin L. ...	1184	805	Steel.	2000	220′	40′	17′	5	1	1910
159	Fitch, Wm. F.	3629	2632	Steel.	5000	346′	48′	28′	10	3	1902
300	Fitzgerald, R. P. ...	1681	1175	Wood.	2300	256′	38′	20′	7	1	1887
366	Fitzgerald, Wm. E. .	5300	3701	Steel.	7300	420′	52′	28′	23	4	1906
159	Flagg, G. A.	3062	2128	Steel.	4300	318′	42′	26′ 6″	9	3	1901

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

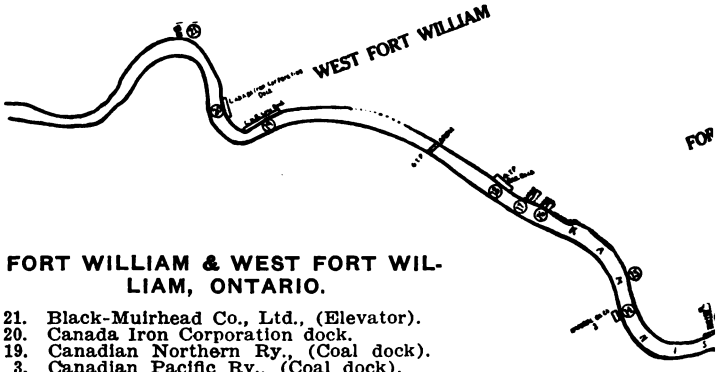
Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
374	Fleetwood	1687	1175	Wood.	2300	265'6"	40' 6"	19' 4"			1887
266	Fletcher, F. W.	495	314	Wood.	600	161'	32'	11' 3"	3	1	1891
252	Flower, Roswell P..	1593	1165	Wood.	2400	264'	38'	20' 6"	1	1	1887
126	Follette, James W. .	756	538	Wood.		212'3"	35' 6"	12'	5	1	1881
269	Ford, J. C.	609	710	Wood.	950	172'	33'	12'	4	1	1889
56	Fordonian (Can.) ..	2367	1905	Steel.	3400	250'	42' 8"	26' 6"	7	4	1912
15	Foster, Parks	1729	1475	Steel.	2900	262'	38'	23'	7	3	1889
365	Foster, I. N.	355	277	Wood.	500	134'9"	26'	11' 6"			1872
2	Franz, W. C. (Can.)	3428	2029	Steel.	5600	346'	48'	28'	10	3	1901
159	French, G. Watson .	3883	2725	Steel.	5600	356'	50'	28'	18	3	1903
299	Frick, Henry C.	6490	5016	Steel.	10500	549'	56'	31'	34	2	1905
79	Frontenac	2003	1676	Steel.	3200	270'	40'	24'	7	3	1889
166	Fryer, Robt. R.(Can.)	1810	1451	Wood.	3100	281'	41' 4"	20'	8	1	1888
299	Fulton, Robert	4219	3181	Steel.	6000	414'	45' 6"	28'	12	4	1896
	Barges										
128	Fassett, Theo. S. ...	548	521	Wood.	1000	186'8"	31' 9"	11'	5	1	1881
74	Fearless	165	156	Wood.	300	120'	24'	8'			1867
170	Filer, D. L.	357	339	Wood.	600	156'6"	30'	10'	4		1871
118	Filer, Grace M. (Can.)	215		Wood.	450	128'	27'	9'			1874
297	Filmore, C. J.	410	389	Wood.	750	161'	31'	10' 3"	4	1	1889
133	Flint, Sam	499	474	Wood.	800	167'7"	34' 1"	12' 7"	4	1	1868
321	Ford River (Can.) ..	299		Wood.	550	143'	29'	10' 8"			1879
196	Francombe, J. A. ...	658	625	Wood.	1300	180'	36'	13'	5	1	1889

	Barges											
20	Freeport (Can.)	373		Wood.	650	137′	26′	12′			1873
299	Fritz, John	4693	4447	Steel.	7900	436′	50′	28′ 6″	15	4	1898
176	Fryer, Robt. L.	527	501	Wood.	1000	175′	33′ 3″	11′ 3″	5	1	1880
	Steamers											
299	Gary Elbert H.	6331	4988	Steel.	10500	549′	56′	31′	34	2	1905
397	Garretson, General .	6765	5371	Steel.	9600	520′	54′	31′	16	4	1907
246	Gargantua (Can.) ..	1090		Wood.	2200	220′	40′	21′	7	1	1882
299	Gates, John W.	5946	4440	Steel.	8300	478′	52′	30′	15	6	1900
90	Georgetown	1358	919	Steel.	2200	243′	40′	18′ 3″	6	1	1900
299	German	2348	1875	Steel.	3300	296′	40′	24′ 6″	8	3	1891
46	Gettysburg	837	464	Wood.	1200	208′	35′ 6″	14′ 6″	5	1	1887
109	Gill, Alice M.	264	203	Wood.	300	127′	28′	10′	3		1887
37	Gladstone	2453	1913	Wood.	3000	283′	40′	23′			1888
56	Glenellah (Can.) ...	2272	1454	Steel.	3000	250′	43′ 2″	23′ 5″	5	3	1905
301	Glenfinnan (Can.) ..	2406	1472	Steel.	3000	324′	42′	23′ 9″	10	2	
321	Glenfoyle (Can.) ...	1680	1051	Steel.	2700	250′	42′ 6″	20′	6	3	1913
347	Glengarry (Can.) ..	509	215	Wood.	1000	170′	26′	11′ 2″			1872
301	Glenlivet (Can.) ...	1860	1089	Steel.	2700	266′	38′	24′	8	3	1891
321	Glenmavis (Can.) ..	1686	1055	Steel.	2700	250′	42′ 6″	20′	6	3	1913
255	Glenmount (Can.) ..	1957	1246	Steel.	3000	249′	42′ 4″	23′	4	2	1907
301	Glenlyon (Can.)	2759	1645	Steel.	3000	328′	42′	25′	9	3	1893
301	Glenshee (Can.) ...			Steel.	9000	480′	54′	30′	14	3	1908
298	Gogebic	1680	1312	Wood.	2500	275′	40′ 4″	19′ 6″	7	1	1887
56	Gordan, D. A. (Can.)	2301	1434	Steel.	3400	249′3″	43′	26′ 6″	6	3	1910
77	Gould, Jay	840	523	Wood.	1500	213′8″	33′ 9″	11′ 6″			1869
373	Goulder, Harvey D. .	6617	5219	Steel.	9700	525′	55′	31′	32	3	1906
324	Gowan, Albert Y. ..	359	176	Wood.	400	124′	26′	14′			1888
229	Graham, Geo. A. (Can.)	2409	1577	Steel.	3300	292′	40′	24′ 6″	8	3	1891
24	Grammer, G. J.	4471	3703	Steel.	6600	434′	48′	28′	13	5	1902
254	Gratwick, Wm. H. ..	4776	3352	Steel.	6800	416′	50′	28′	12	4	1902

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

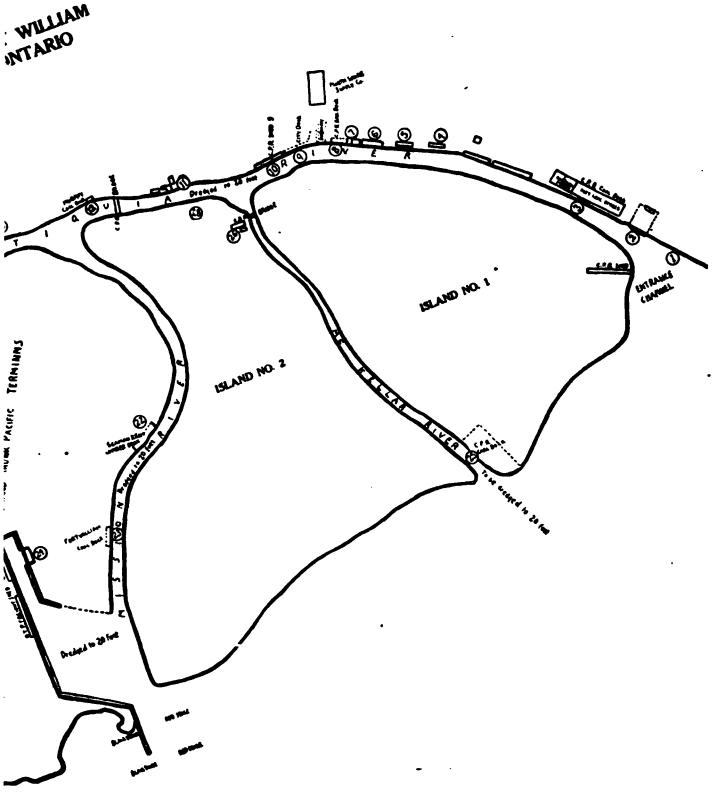
Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
345	Green, C. H.	694	504	Wood.	950	192'6"	33'	12' 8"	4	1	1881
115	Greene, M. T.	523	422	Wood.	750	155'	30'	11' 6"	4	1	1887
19	Griffin	1879	1526	Steel.	2700	266'	38'	24'	8	3	1891
44	Groh, Mary	139	69	Wood.	Sand	112'	22'	8'			1873
209	Gunnell, E.	688	465	Steel.	Sand	170'	36'	10'			1912
	Barges										
255	Gaskin, John (Can.).	521	487	Wood.	900	165'8"	31' 4"	12'			1881
215	Gawn, Thomas	549	522	Wood.	1000	170'8"	31' 7"	13' 6"	6	1	1872
129	Genoa	730	694	Wood.	1200	188'9"	34' 1"	13' 2"	5	1	1873
65	Georger, F. A. (Can.)	825	784	Wood.	1500	200'6"	35' 4"	15'			1874
136	Godfrey, Jermiah ..	653	620	Wood.	1250	177'	34' 9"	14'	6	1	1881
307	Golden Age	1846	1763	Wood.	3100	278'	37' 8"	20'	8	1	1882
31	Goshawk	501	461	Wood.	950	180'	32' 4"	11' 6"	5	1	1866
92	Grampian	844	802	Wood.	2200	218'	38'	13' 2"		1	1894
92	Granada	1729	1643	Wood.	3200	247'	40'	21' 6"		1	1895
10	Grant, Levi	204	194	Wood.	400	127'	27'	8'			1872
37	Grover, Maurice B. .	2147	1986	Wood.	3300	281'4"	40' 6"	23' 9"			1887
18	Guido (Can.)	135		Wood.	250	114'	24'	8'			1856
	Steamers										
311	Hackett, J. H. (Can.)	117		Wood.		87'9"	21' 2"	8' 8"			1901
311	Hackett, Wm. (Can.)	126		Wood.		98'7"	20'	8'			1900
56	Haddington	1603	1010	Steel.	3000	243'	42'	18'	6	3	1904
357	Hagarty, J. H. G. (Can.)	7462	5704	Steel.	10000	529'	58'	31'	16	6	1914

	Steamers										
281	Hall (Can.)	247	136	Comp.	300	102'8"	22' 5"	7' 4"			1889
156	Hall, Henry B.	1152	962	Wood.	1500	213'	35'	19'	6	1	1881
178	Hall, Stephen C. (Can.)	511	307	Wood.	550	161'2"	30' 5"	10' 6"	4	1	1880
56	Hamiltonian (Can.)	2346	1277	Steel.	3000	244'	42' 6"	26' 6"	6	3	1912
180	Hanna, D. R.	7023	5491	Steel.	10200	532'	56'	32'	32	3	1906
322	Hanna, H. M., Jr. ..	6204	4689	Steel.	9000	504'	54'	30'	15	3	1908
159	Hanna, Leonard C. .	6356	4922	Steel.	9500	504'	54'	30'	30	3	1905
254	Hanna, M. A.	4661	3116	Steel.	6800	410'	50'	28'	22	4	1899
82	Harlow	575	482	Wood.	1000	194'	35'	10' 6"	5	1	1891
373	Hart, Frank W.	4307	3374	Steel.	6300	380'	50'	28'	11	4	1902
373	Hartwell, Fred G. ..	6223	4865	Steel.	10000	504'	58'	30'	15	3	1908
299	Harvard	5054	4061	Steel.	7500	454'	50'	28' 6"	14	6	1900
404	Harvester, The	7188	5690	Steel.	10200	525'	58'	31'	32	3	1911
48	Harvey, F. E.	355	288	Wood.	Sand	133'	31'	7' 6"			1899
331	Haskell, Wm. A. ..	1530	1440	Wood.		240'	37'	25'			1884
209	Hausler, M. G.	609	414	Steel.	Sand	144'	35'	10'			1910
32	Havey, Hugh R.	474	389	Wood.	800	173'6"	30' 7"	12'	4	1	1880
165	Hawgood, H. B.	4655	3386	Steel.	6800	414'	50'	28'	12	4	1903
238	Hazard, W. A.	372	267	Wood.	500	154'	29'	11' 8"	3		1890
397	Hebard, Chas. S. ...	6291	4854	Steel.	9500	504'	54'	30'	30	3	1906
156	Hecla	1110	909	Wood.	1800	224'	34' 3"	17' 6"	6	1	1882
373	Heffelfinger, F. T. ..	4897	3630	Steel.	7000	430'	50'	28' 6"	13	6	1901
377	Heiden, Charles ...	717	446	Steel.	Sand	160'	35'	14'			1913
15	Helena	2083	1579	Wood.	3200	275'	42'	20'	8	1	1888
174	Helen C.	622	460	Wood.	900	186'	35'	12' 4"	5	1	1874
296	Hemlock	4796	3501	Steel.	7300	420'	52'	28'	23	4	1907
211	Hennipin	990	639	Wood.	1200	208'8"	35'	12' 4"			1888
167	Hettler, H. H.	789	536	Wood.	1200	210'	34' 7"	13' 3"	5	1	1890
171	Hickley	131	34	Wood		108'	24'	8'			1901
299	Hill, James J.	6025	4578	Steel.	8300	478'	52'	30'	15	6	1900



FORT WILLIAM & WEST FORT WILLIAM, ONTARIO.

21. Black-Muirhead Co., Ltd., (Elevator).
20. Canada Iron Corporation dock.
19. Canadian Northern Ry., (Coal dock).
3. Canadian Pacific Ry., (Coal dock).
5. Canadian Pacific Ry., (Elevator "A").
4. Canadian Pacific Ry., (Elevator "C").
13. Canadian Pacific Ry., (Elevator "D").
10. Canadian Pacific Ry., (Freight Shed No. 5).
25. Canadian Pacific Ry., (Island Coal Dock).
8. Canadian Pacific Ry., (Rail dock).
9. City Dock.
16. Consolidated Elevator Co., Ltd.
28. Dwyer Elevator Co., Ltd.
1. Empire Elevator Co., Ltd.
23. Fort William Coal Dock Co., Ltd.
16. Fort William Elevator Co., Ltd.
6. Grain Growers Grain Co., (C. P. R. Elevator "E").
7. Grain Growers Grain Co., (C. P. R. Elevator "B").
27. Grand Trunk Pacific Ry., (Freight Sheds).
18. Grand Trunk Pacific Ry. (Rail dock).
24. Grand Trunk Pacific Terminal Elevator.
26. Great Lakes Dredging Co., Ltd.
2. Imperial Oil Co., Ltd.
14. Imperial Oil Co., Ltd.
22. Kent, Seamon (Lumber dock).
12. Murphy's, James (Coal dock).
11. Ogilvie Flour Mills Co., Ltd.
17. Western Terminal Elevator.



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GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
103	Hilton	166	166	Wood.	250	110′	26′ 6″	7′ 4″			1867
170	Hines, L. Edward ..	982	790	Wood.	1200	203′	37′ 5″	14′ 1″	4		1893
55	Holcomb, Ralph T. (Can.)	375	250	Wood.	450	133′	30′	9′ 6″			1898
254	Holden, H. S.	4444	3091	Steel.	6800	408′	50′	28′	22	4	1898
128	Holland, Robt.	423	339	Wood.	550	156′	30′	11′ 5″	3	1	1873
165	Holmes, Edwin F. ..	4787	3517	Steel.	6800	420′	50′	28′	12	4	1904
108	Honoreva										
373	Hoover & Mason ...	5841	4578	Steel.	9500	504′	54′	30′	16	3	1905
299	Houghton, Douglas .	5332	4034	Steel.	7300	456′	50′	28′	14	4	1889
299	House, Francis E. .	7769	5943	Steel.	12000	585′	60′	32′	36	4	1907
366	Howe, Geo. C.	1550	955	Steel.	2600	241′	41′	18′	6	3	1903
296	Hoyt, James H.	4364	3234	Steel.	6600	404′	50′	27′	23	6	1902
146	Hubbard, Chas.	4846	4287	Steel.	7600	438′	52′	28′	13	3	1907
322	Hubbard, C. Russell	6839	5389	Steel.	10200	532′	56′	31′	32	3	1906
405	Huron	4810	3051	Steel.	6000	416′	56′	30′	21	3	1914
263	Huron	1945	1309	Steel.	2800	238′	42′	26′ 6″			1898
320	Huron City	368	277	Wood.	500	167′8″	29′	10′ 8″	3	1	1867
402	Hutchinson, C. L. ..	6377	4860	Steel.	9500	504′	54′	30′	30	4	1910
180	Hutchinson, J. T. .	3734	2780	Steel.	5500	346′	48′	28′	17	3	1901
181	Hydro	1282	872	Steel.		169′	40′	19′			1913
	Barges										
74	Hackley, C. H.	207	197	Wood.	400	124′8″	27′ 2″	8′ 4″			1868
255	Hamilton (Can.) ...	970	970	Comp.	1900	202′	41′	13′	6	3	1901

	Barges											
317	Hanscombe, Belle ..	294	279	Wood.	500	138'8"	26'		11'			1874
176	Harold	718	682	Wood.	1400	190'	34'		13'	6	1	1891
108½	Harriet D. (Can.) ..	460		Wood.	750	161'6"	32'	2"	11'	5	1	1885
90	Harrison, Ben.	538	511	Wood.	1000	175'	32'	2"	12'			1889
385	Hartnell, Geo. E. ...	3265	3124	Steel.	5600	352'	42'		27'	11	3	1896
255	Hector (Can.)	539		Wood.	1000	170'3"	35'	5"	11'	9"		1882
170	Helvetia	793	753	Wood.	1500	204'6"	35'	6"	13'	8"	6	1873
288	Herschel (Can.) ...	238		Wood.	450	121'	26'		10'			1872
255	Hilda (Can.)	418		Wood.	800	160'	30'		12'	3"		1898
276	Hoboken	299	284	Wood.	500	139'6"	26'		11'			1868
231	Holland, Grace	629	597	Wood.	1200	189'6"	33'		12'	8"	5	1 1880
128	Holland, Nelson C. .	564	536	Wood.	1000	187'6"	31'	8"	11'	2"	5	1 1881
299	Holley, Alex.	2721	2554	Steel.	6300	361'6"	46'		26'		12	3 1896
315	Holmes, J. A.	167	159	Wood.	300	112'3"	26'	6"	8'	7"		1867
338	Hossack, W. D.	330	272	Wood.	600	151'6"	30'		10'	4"		1872
170	Hutchinson, E. C. ..	736	699	Wood.	1400	195'7"	34'	2"	14'		6	1873
141	Hutt, Hattie (Can.).	230	188	Wood	400	127'	26'		10'			1873
	Steamers											
330	Ida E. (Can.)	181	136	Wood.	375	132'	28'	6"	9'	3"		1887
183	Imperial (Oil) (Can.)	636	412	Steel.		162'4"	25'	5"	7'	4"		1889
183	Imperoyal (Oil) (Can.)	2253	1384	Steel.	Oil	249'6"	43'	1"	19'	8"		1913
183	Impoco (Oil) (Can.)	1683		Steel.		242'	40'	1"	20'			1910
255	India (Can.)	976	573	Wood.	1700	215'9"	36'	4"	15'			1899
296	Indus	3871	2997	Steel.	5600	356'	50'		28'	10	3	1901
317	Inland (Can.)	1889	1098	Steel.		248'	42'		27'	9		1894
56	Ionic (Can.)	1708	1030	Iron..	2000	231'	35'	6"	24'	6"	6	4 1872
198	Ireland, Robert L. .	6387	4889	Steel.	9500	504'	54'		30'		30	4 1914
90	International	1815	1343	Steel.		244'	43'		19'	2"	6	1 1914
357	Iroquois (Can.)	2359	1452	Steel.	3500	247'	43'		25'	6"	6	2 1902

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
156	Iselin, Adrian	2072	1346	Steel.	3000	244′	43′	23′	11	2	1915
79	Ishpeming	6924	5476	Steel.	10000	530′	56′	31′	31	3	1906
145	Italia	2305	1735	Wood.	3200	289′	42′	24′	7	1	1889
	Barges										
167	Interlaken	567	538	Wood.	1100	170′	34′ 2″	11′	5	1	1893
364	Iowa (Can.)	366		Wood.		149′	26′	11′			1874
45	Ireland (Can.)	339		Wood.	700	147′	28′	9′ 6″			1863
307	Iron Cliff	1116	1077	Wood.	2000	212′4″	35′	18′	6	1	1881
	Steamers										
189	Jacob, C. W.	2062	1714	Wood.	3000	298′	41′	21′	9	2	1891
56	Jaques, C. A. (Can.)	2105	1590	Steel.	3500	249′	43′	25′	6	3	1910
180	Jenkins, Chas. O. ..	6285	4287	Steel.	9500	504′	54′	30′	30	3	1907
165	Jenks, J. M.	4644	3381	Steel.	6800	414′	50′	28′	12	4	1902
111	Jex, H. N.	420	479	Wood.	650	169′4″	26′ 5″	10′ 3″			1868
24	Jones, B. F.	6939	5492	Steel.	10000	530′	56′	31′	32	3	1906
156	Jones, F. P.	1706	1059	Steel.	3000	244′	43′	21′	6	2	1913
56	Juno (Can.)	288	196	Wood.	350	139′7″	26′ 8″	8′ 8″	4		1895
296	Jupiter	3719	2769	Steel.	5600	346′	48′	28′	10	3	1901
	Barges										
178	Jackson, G. K. (Can.)	390	353	Wood.	700	163′6″	31′	9′ 1″	4	1	1882
158	Jenness, B. W.	356	339	Wood.	750	155′	29′ 6′	10′ 6″	4	1	1867

	Barges										
258	Jennette (Can.) ...	329		Wood.	700	141′	28′	11′			1881
299	Jenny, W. LeBaron.	3422	3280	Steel.	6000	378′	45′	26′	11	3	1897
171	Jessie	201	201	Wood.		112′	24′	9′			1900
6	Jones, Chester B. ..	493	470	Wood.	900	167′	30′ 3″	12′	5	1	1873
132	Jones, John V.	200	190	Wood.	400	125′	27′	8′ 6″			1876
124	Joses	120	114	Wood.	225	99′9″	24′	7′ 1″			1866
190	Judd, E. T.	389	369	Wood	800	149′6″	29′ 6″	11′ 4″			1872
	Steamers										
176	Kalkaska	679	555	Wood.	900	178′	33′ 9″	15′ 6″	4	1	1884
262	Kaministiquia (Can.)	2172	1401	Steel.	3300	243′	43′	22′ 6″	6	3	1909
51	Kearsarge	3092	2721	Steel.		328′	44′	27′			1894
366	Keefe, J. S.	1640	944	Steel.	2600	241′	41′	18′	6	3	1903
193	Kelly Island	881	414	Steel.	Sand	175′	38′	10′ 6″			1914
194	Kendall, Harvey J. .	398	264	Wood.	500	141′7″	31′	9′ 4″	5	1	1892
254	Kennedy, Hugh	7064	5500	Steel.	10200	532′	56′	32′	32	3	1907
56	Kenora (Can.)	1955	1274	Steel.	3000	249′	42′ 6″	23′		3	1907
34	Kensington	3762	3130	Steel.	5800	360′	50′	28′	10	4	1903
296	Kerr, D. G.	5531	3991	Steel.	7700	448′	52′	28′	25	6	1903
317	Ketchum, J. B., 2d (Can.)	1109	763	Steel.	1500	193′	40′ 6″	13′	4	1	1892
195	Keybell (Can.)	1730	1254	Steel.	3000	244′	42′ 6″	20′	6	3	1912
195	Key Port (Can.) ...	1721	1297	Steel.	3000	250′	42′ 5″	20′	6	3	1909
195	Keynor (Can.)	1760	1090	Steel.	3100	250′	42′ 5″	20′	6	3	1914
195	Keyvive (Can.)	1768	1045	Steel.	3100	250′	42′ 5″	20′	6	3	1913
195	Key West (Can.) ...	1725	1297	Steel.	3000	250′	42′ 5″	20′	6	3	1909
343	King, Geo.	532	380	Wood.	750	176′5″	30′ 8″	13′ 5″	4	1	1874
24	King, Willis L.	7568	5712	Steel.	11500	580′	58′	32′	36	3	1910
255	Kinmount (Can.) ..	2112	1598	Steel.	3000	249′	43′	25′	6	3	1908
385	Kirby, S. R.	2338	1823	Comp.	3300	294′	42′	26′	9	1	1890
333	Kongo	672	482	Wood.	950	215′	31′	10′ 6″	4	1	1881

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
34	Kopp, Jacob T.	6035	4530	Steel.	8700	480′	54′	30′	14	3	1907
366	Kotcher, C. W.	4961	3632	Steel.	7400	420′	52′	28′	23	4	1908
	Barges										
101	Katahdin (Can.) ...	381		Wood.	800	150′	30′ 9″	10′ 9″			1888
105	Keewatin (Can.) ...	199		Wood.	350	120′	25′	10′			1888
111	Keith, Ida	489	465	Wood.	900	163′3″	30′ 6″	13′ 4″		1	1873
317	Kelderhouse, John .	500	475	Wood.	900	168′	32′	12′			1867
193	Kelley, Norman	513	497	Steel.	1500	179′	35′	15′			1905
343	Ketchum, J. L.	413	393	Wood.	750	156′	31′	10′ 4″			1867
348	Kewaunee	206	172	Wood.	400	123′8″	27′ 4″	8′ 3″			1866
255	Kildonan (Can.) ...	499		Wood	900	174′	33′	11′			1888
255	Kingston (Can.) ...	578		Wood.		181′	35′	12′			1898
302	Kitchen, J. B. (Can.)	302		Wood.	625	133′	27′	9′			1873
238	Knapp, F. M.	384	365	Wood.	800	155′	29′ 6″	11′ 6″	8	1	1867
299	Krupp, Alfred	3259	3124	Steel.	5800	352′	44′	26′	11	3	1896
	Steamers										
159	La Belle	6407	4876	Steel.	9500	504′	54′	30′	30	4	1909
19	La Salle	1921	1596	Steel.	2700	266′	38′	24′	8	3	1890
33	Lackawanna	2015	1595	Steel.	3000	260′	39′ 2″	24′ 6″			1888
254	Lagonda	3647	3017	Steel.	5200	375′	46′	28′	10	3	1896
309	Lakeland	2425	1813	Steel.		280′	39′	24′			1887
309	Lakeport	1829	1669	W.& I.		263′	36′ 4″	27′			1880
303	Lake Michigan (Can.)	588		Wood.	450	136′	23′ 9″	11′ 5″			1872

	Steamers											
309	Lakewood	1917	1677	W.& I.		266′	38′	26′				1884
366	Lambert, John	1550	929	Steel.	2600	241′	41′	18′		6	3	1903
61	Langell Boys	387	286	Wood.	500	151′	30′	11′	2″	3	1	1890
31	Langell, Simon	845	677	Wood.	1200	195′4″	34′ 6″	13′	7″		1	1886
24	Laughlin, James	6939	5492	Steel.	10000	530′	56′	31′		32	3	1906
164	Lehigh	1464	1035	Iron..	1800	238′	36′	15′	4″	6	1	1880
146	Leonard, Geo. B.	4037	2844	Steel.	6300	380′	50′	28′		11	4	1903
180	Leopold, N. F.	6929	5245	Steel.	10200	532′	56′	31′		32	3	1908
39	Lewiston	1808	1342	Comp.	3000	272′	38′	21′		8	3	1886
242	Linden	894	708	Wood.	1500	206′	35′	12′	8″	5	1	1895
299	Linn, Wm. R.	4328	3196	Steel.	5800	400′	48′	28′		12	4	1898
377	Little, C. H.	324	241	Wood.	Sand	144′	28′	8′				1903
220	Livingstone	2134	1622	Comp.	3300	281′	41′	22′		7	1	1889
373	Livingstone, Wm.	6634	4927	Steel.	10200	532′	58′	31′		30	3	1908
296	Lupus	3871	2997	Steel.	5600	356′	50′	28′		10	3	1901
62	Luzon	3582	2778	Steel.	5400	346′	48′	28′		10	4	1902
299	Lynch, Thomas	7240	5450	Steel.	11500	580′	58′	32′		36	3	1907
	Barges											
113	Lake Forest	332		Wood.	700	146′	29′	11′				1869
255	Lapwing (Can.)	516		Wood.	1000	175′7″	31′ 2″	12′				1892
74	Lily, E.	191	182	Wood.	375	123′6″	25′ 6″	8′				1869
158	Lotus	270		Wood.	600	136′	28′ 6″	9′				1867
224	Lozen, J. B.	565	538	Wood.	1100	178′	32′ 6″	12′	4″	6	1	1890
74	Luckey, A. W.	311	296	Wood.	700	147′8″	26′ 2″	9′	9″			1865
96	Lyon, Mary (Can.)	334	310	Wood.	600	138′	26′ 2″	12′				1874
	Steamers											
156	MacTier, A. D.	1706	1059	Steel.	3000	244′	43′	21′		6	2	
114	McCollough, J. C.	1895	1604	Iron..	3000	255′	40′	24′				1890
299	McDougall, Alex.	3686	2662	Steel.	6800	413′	50′	27′		13	4	1898

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
304	McGregor, Mary A. .	711	581	Wood.	1000	179′	33′	13′	4	1	1889
397	McIntosh, H. P.	6765	5371	Steel.	9600	520′	54′	31′	16	4	1907
2	McKee, J. A. (Can.)	2158	1374	Steel.	3300	248′	43′	25′10″	7	3	1908
377	McKerchey, John M.	732	443	Steel.	Sand	161′	37′ 1″	11′			1906
56	McKinstry, A. E. (Can.)	1964	1203	Steel.	2700	250′	42′ 7″	20′ 6″	6	3	1910
180	McKinney, Price ..	5250	3927	Steel.	7600	432′	54′	28′	12	4	1908
276	McVittie, Alex.	2046	1552	Wood.		240′	42′	25′			1880
254	McWilliams, John J.	3400	2808	Steel.	5200	352′	45′	26′	10	3	1895
	Barges										
237	McLachlan, Mary E.	1762	1324	Wood.	2900	251′	41′	16′ 2″	8	1	1893
152	McWilliams, Ed. ...	743	706	Wood.	1500	200′	35′	13′ 6″	6	1	1893
	Steamers										
207	Mack, Wm. S.	3720	2785	Steel.	5500	346′	48′	28′	10	4	1901
8	Mahoning	2189	1744	Steel.		274′	40′	23′			1892
326	Major (Can.)	2150	1721	Wood.	3200	283′	41′	22′	8	1	1889
299	Malietoa	5229	3921	Steel.	7500	454′	50′	28′ 6″	14	3	1899
244	Malton (Can.)	1644	974	Comp.	2600	253′	40′	19′	6	1	1888
378	Manchester	2132	1611	Comp.	3100	281′	41′	23′	7	3	1889
317	Manistique	474	382	Wood.	500	157′	31′	12′ 6″			1882
299	Manola	2325	1835	Steel.	3300	282′	40′	24′ 6″	9	3	1890
56	Mapleton (Can.) ...	1781	1139	Steel.	3400	250′	42′ 6″	18′ 6″	6	3	1909
299	Maricopa	4223	3669	Steel.	5800	406′	48′	28′	12	4	1896

	Steamers											
299	Mariposa	2831	2306	Steel.	4100	330′	45′	24′ 6″	9	3	1892
23	Mariska (Can.)	2502	1875	Steel.	3300	282′	40′	24′	9	3	1890
299	Maritana	2957	2429	Steel.	4100	320′	45′	24′ 6″	9	3	1892
109	Markham, Geo. C. ..	309	250	Wood.	450	141′	28′	10′ 8″	3	1	1883
366	Marshall, A. M.	1640	987	Steel.	2600	241′	41′	18′	6	3	1903
334	Marshall, Maggie ..	365	279	Wood.	400	150′	30′	11′ 4″	3	1	1873
65	Marshall, Samuel (Can.)	772	540	Wood.	1100	198′	34′	16′ 6″	5	1	1888
56	Martian (Can.)	3396	2010	Steel.	5600	346′	48′	28′	10	3	1901
180	Maruba	2311	1836	Steel.	3200	291′	40′	24′ 6″	8	3	1890
378	Maryland	2419	1892	Steel.	3900	316′	42′	24′ 6″	8	3	1890
244	Masaba (Can.)	1913	1267	Steel.	2500	240′	40′	24′ 6″	6	2	1891
299	Mather, Samuel	1713	1318	Steel.	3500	308′	38′	24′	12	1	1892
296	Mather, Samuel	6751	5408	Steel.	10500	530′	60′	31′	32	3	1906
79	Mather, Wm. G.	6838	5183	Steel.	10000	513′	60′	31′	30	3	1905
299	Mataafa	4840	3604	Steel.	7300	430′	50′	28′ 6″	13	5	1899
317	Matoa Can.)			Steel.	3200	290′	40′	24′ 6″	8	3	1890
357	Matthews, W. D. (Can.)	3965	2450	Steel.	5600	358′	48′	28′	10	4	1903
216	Mauch Chunk	4499	3609	Steel.		381′7″	50′ 5″	28′			1901
26	Maud	98	67	Wood.		95′	23′	7′			1899
299	Maunaloa	4951	4004	Steel.	7000	430′	50′	28′ 6″	13	6	1899
131	Maytham, Thomas .	2329	1972	Steel.	3600	286′	41′	24′	8	1	1892
119	Meaford (Can.)	1889	1201	Steel.	3000	248′5″	42′	20′ 6″	7	2	1903
120	Meacham, Daniel B.	6971	5482	Steel.	10200	530′	56′	31′	32	3	1908
131	Mecosta	1776	1418	Wood.	3000	281′	40′	20′	7	1	1888
156	Mercur, Fred	1224	966	Wood.	1500	232′	35′ 6″	20′	6	1	1882
366	Merida	3329	2389	Steel.	5100	360′	45′	26′	10	3	1892
32	Miami	228	191	Wood.	400	131′	28′	10′	3	1	1888
79	Michigan	6924	5476	Steel.	10000	530′	56′	31′	31	3	1906
56	Midland King (Can.)	3959	2450	Steel.	5500	358′	48′	28′	10	4	1903

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
56	Midland Prince (Can.)	6636	5141	Steel.	8700	466′	55′	31′	14	4	1907
56	Midland Queen (Can.)	1993	1349	Steel.	3200	249′	42′ 7″	20′ 6″	6	4	1901
322	Miller, Leonard B.	6291	4921	Steel.	9500	504′	54′	30′	15	3	1910
39	Miller, P. P.	3845	2858	Steel.	5700	354′	48′	28′	10	4	1903
344	Milinokett	6215	4947	Steel.	9200	504′	52′	30′	29	3	1907
296	Mills, D. O.	6598	4850	Steel.	10300	532′	58′	31′	33	3	1907
250	Mills, David W.	925	654	Wood.	1200	202′	34′	13′ 2″	5	1	1874
372	Mills, J. E. (Can.)	149	64	Wood.		108′	23′ 5″	7′ 8″			1883
178	Mills, Robert	2070	1712	Wood.	2800	256′	40′	21′ 6″			1888
389	Milwaukee	3327	2424	Steel.		325′	44′	28′			1902
362	Minch, Anna C.	4285	3229	Steel.	6300	380′	50′	28′	20	4	1903
362	Minch, Philip	5865	4471	Steel.	8700	480′	52′	30′	28	3	1905
263	Minneapolis	2029	1221	Steel.	2800	238′	42′	26′			1897
212	Mitchell, Alfred	1751	1550	Wood.	3100	255′	40′	25′ 6″	7	1	1900
322	Mitchell, Samuel	2277	1870	Steel.	3200	293′	40′ 6″	24′ 6″	8	3	1892
389	Mohawk	2357	1616	Steel.		293′	43′	26′ 8″			1893
142	Mohegan	1216	1014	Wood.	1600	225′	39′ 2″	14′ 1″	6	1	1894
34	Moll, Clifford F.	5141	3894	Steel.	8300	444′	56′	28′	13	3	1909
260	Moore, John W.	1961	1689	Steel.	3200	246′	41′	23′ 6″	6	2	1890
56	Morden, W. Grant (Can.)	8973	6595	Steel.	12500	604′	59′	32′	38		1914
299	Morgan, J. P.	7161	5530	Steel.	11500	580′	58′	32′	35	3	1906
299	Morgan, J. P., Jr.	7521	5824	Steel.	11500	580′	58′	32′	36	3	1910

	Steamers										
156	Morley, Wm. B.	1747	1565	Wood	2500	240′	42′ 8″	24′ 8″			1892
159	Morrell, Daniel J. ..	7239	5419	Steel.	11500	580′	58′	32′	18	3	1906
342	Morrow, Joe S.	4895	3606	Steel.	7300	420′	52′	28′	23	4	1907
296	Morse, Jay C.	6649	5087	Steel.	10300	532′	58′	31′	32	3	1907
299	Morse, Samuel F. B.	4936	4301	Steel.	7500	456′	50′	29′	15	4	1898
176	Mueller	699	578	Wood	850	172′	30′	12′ 6″	4	1	1887
180	Mullen, Martin	4635	3471	Steel.	7000	416′	50′	28′	23	4	1904
8	Muncy	3863	2946	Steel.		350′	46′	30′			1902
120	Munro, Josiah G. ..	6971	5482	Steel.	10200	530′	56′	31′	31	3	1907
299	Murphy, Simon J. ..	4869	3770	Steel.	7400	428′	51′ 6″	28′	13	4	1900
31	Myron	676	414	Wood	950	186′	32′ 6″	13′	4		1888
	Barges										
191	Magill, C. J. (Can.).	334		Wood.	600	141′	30′ 5″	11′ 8″			1863
299	Magna	3259	3124	Steel.	5800	352′	44′	26′	11	3	1896
317	Magnetic	1946	1592	Wood.	3100	264′	38′ 6″	22′ 4″	9	1	1882
299	Maia	3804	3442	Steel.	6300	376′	48′	26′	12	3	1898
299	Maida	3474	3210	Steel.	6300	376′	46′	26′	12	3	1898
255	Mamie (Can.)	370		Wood.	700	129′4″	28′	11′ 2″			1897
159	Maitland, Alex.	3351	2998	Steel.	5700	366′	44′	26′	12	3	1902
353	Maize (Can.)	268		Wood.	500	136′	26′	11′			1856
299	Manda	3256	3121	Steel.	5500	352′	44′	26′	11	3	1896
	Manila	5039	4667	Steel.	7900	436′	50′	28′ 6″	14	6	1899
299	Marcia	2237	2132	Steel.	4000	302′	40′	25′	9	3	1895
299	Marsala	5039	4667	Steel.	7900	436′	50′	28′ 6″	14	6	1900
299	Matanzas	2600	2525	Wood	4500	324′	45′ 6″	21′ 6″	11	1	1899
92	Marsh, Geo. A. (Can.)	220		Wood.	375	135′	26′ 6″	9′			1882
125	Marshall, Charlie (Can.)	219	206	Wood.	400	122′4″	26′ 5″	9′ 2″			1881
302	Martha	3256	3121	Steel.	5500	352′	44′	26′	11	3	1896

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GENERAL DIMENSIONS OF LAKE VESSELS—Continued

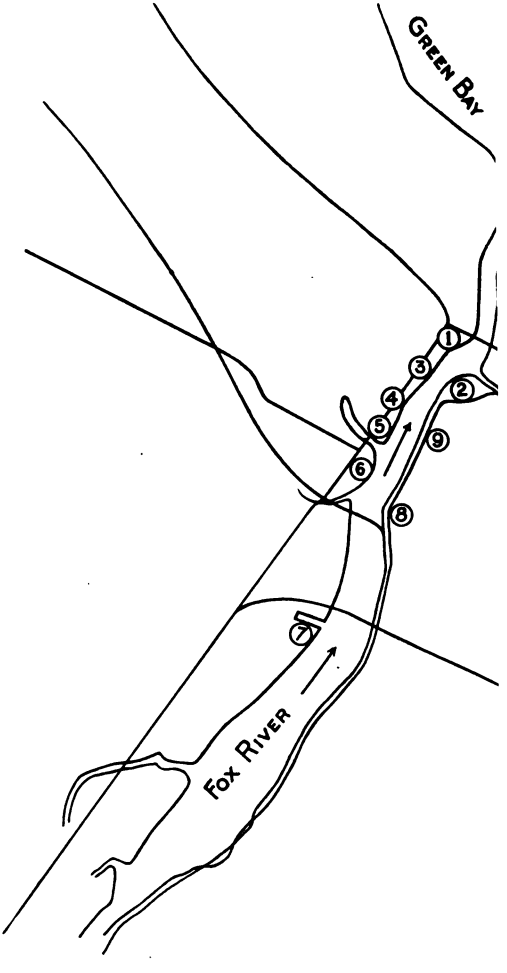
Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. Hitchs	No. Comp.	Year Built
	Barges										
156	Mathews, Jennie ..	332	316	Wood	500	138′	26′	12′			1874
219	Mead, J. H.	409	388	Wood	800	171′	29′	11′			1874
113	Melbourne (Can.) ..	510	484	Wood.	900	168′8″	31′ 6″	12′ 6″	4	1	1880
255	Melrose (Can.)	740	740	Wood	1300	183′6″	35′ 8″	14′			1895
172	Melvina	270	257	Wood.	550	133′5″	27′ 9″	10′ 2″	4	1	1863
276	Menominee	454	433	Wood	900	166′2″	33′ 1″	10′ 9″			1883
91	Merrill, Julia B. (Can.)	200	190	Wood.	500	152′	27′	8′ 5″	4	1	1872
38	Middlesex	618	587	Wood.	1100	186′	32′ 6″	12′ 4″	5	1	1881
303	Minch, Sophia (Can.)	538		Wood.	1100	184′	33′	13′ 8″	5	1	1873
74	Minerva	222	211	Wood.	400	125′6″	26′ 7″	9′ 8″			1862
142	Mingoe	712	681	Wood.	1300	198′6″	36′	12′	6	1	1893
282	Mitchell, Forster W.	513	405	Steel.		142′	32′	11′			1909
31	Miztec	777	738	Wood.	1350	194′	34′ 6″	14′	5		1890
31	Moore, W. K.	618	588	Wood.	1200	180′	34′ 3″	11′ 8″			1894
4	Moravia	1067	1014	Wood.	2100	213′3″	39′ 8″	16′ 8″			1888
92	Montezuma	2722	2710	Wood.	4900	342′	46′	21′ 6″	11	1	1903
303	Moran, David	491		Wood.	750	162′	36′	9′			1901
43	Mowatt, James	523	497	Wood.	950	166′4″	33′ 1″	13′	5	1	1884
233	Mowatt, Oliver (Can.)	244		Wood.	500	131′2″	25′ 9″	10′ 6″			1873
74	Mueller, Minnie	199	189	Wood.	400	120′	26′ 4″	9′ 7″			1867
303	Muir, A. (Can.)	330		Wood.	500	138′	23′ 9″	11′ 4″			1874
255	Muskoka (Can.) ...	481	454	Wood.	900	149′	26′	11′ 6″			1872

	Steamers											
56	Natironco (Can.) ...	1079	542	Steel.	1600	226′	35′	17′ 6″	10	1	1892
321	Navajo (Can.)	179		Wood.		108′6″	21′ 7″	8′ 7″			1895
229	Neebing (Can.)	1879	1187	Steel.	2900	248′	42′	25′	6	2	1903
56	Neepawah (Can.) ..	1799	1190	Steel.	2800	244′	29′10″	21′ 8″		3	1903
265	Neff, Chas. S.	992	800	Steel.	1600	200′	38′	14′	5	1	1901
371	Neff, M. C.	276	210	Wood.	350	137′	28′	11′ 3″			1888
266	Neff, Sidney O.	435	338	Wood	500	149′6″	30′	10′ 6″	3	1	1890
299	Neilson, James B. ..	2234	1571	Steel.	3500	308′	42′	25′	8	1	1892
131	Neosha	1982	1659	Wood	2700	266′	41′	22′ 8″	8	1	1888
296	Neptune	3717	2773	Steel.	5600	346′	48′	28′	10	3	1900
266	Nessen, N. J.	440	319	Wood	500	149′	37′	11′ 5″	3	1	1880
146	Nettleton, A. E.	6286	5006	Steel.	9800	525′	55′	31′	31	3	1908
106	Nevada (Can.)	1257	775	Steel.	2000	230′	34′ 1″	21′ 1″		4	1890
51	Newona (Can.)	2179	1401	Steel.	3000	240′	43′ 5″	25′		3	1909
34	Niagara	1951	1483	Steel.	3000	266′	42′	20′	7	1	1897
276	Nicaragua	1201	911	Wood.	2400	241′	37′	22′ 8″			1894
170	Niko	814	658	Wood.	1150	189′	35′	13′	4	1	1889
161	Nipigon	626	540	Wood.	1150	191′	34′	13′ 7″	4	1	1883
108	Norhilda (Can.)	1175	1056	Steel.	2000	230′	36′ 5″	18′ 2″	4	2	1910
322	Normania	4871	3705	Steel.	7200	420′	52′	28′	12	3	1908
262	Normandie	562	430	Wood	700	160′	35′	11′ 6″			1894
263	North Lake	3861	2941	Steel.	5000	350′	46′	30′			1909
263	North Sea	3921	3045	Steel.	5000	350′	46′	30′			1909
263	North Star	3849	2928	Steel.	5000	350′	46′	30′			1909
263	North Wind	2476	1885	Steel.	3000	299′	40′ 6″	24′ 6″			1889
263	Northern King	2476	1885	Steel.	3000	299′	40′ 6″	24′ 6″			1888
263	Northern Light	2476	1885	Steel.	3000	299′	40′ 6″	24′ 6″			1888
263	Northern Queen ...	2476	1885	Steel.	3000	299′	40′ 6″	24′ 6″			1888
263	Northern Wave	2476	1885	Steel.	3000	299′	40′ 6″	24′ 6″			1889
255	Northmount (Can.)	1908	1172	Steel.	3000	249′	43′	19′ 5″	6	2	1907
322	Norton, David Z. ..	5667	4250	Steel.	8500	480′	52′	30′	14	3	1906

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS Keel Length	Beam	Depth	No. Hatchs	No. Comp.	Year Built
	Steamers										
407	Norwalk	1007	881	Wood.	1500	209′	38′ 6″	14′	5	1	1891
146	Norway	6673	5314	Steel.	9700	504′	58′	30′	29	3	1910
146	Nottingham, Wm. ..	4234	3070	Steel.	6300	380′	50′	28′	11	4	1902
33	Nyanza	2296	1870	Wood.	3200	280′	41′ 5″	20′	8	3	1890
180	Nye, Harold B.	4310	3365	Steel.	6300	380′	50′	28′	20	4	1902
	Barges										
255	Nadine (Can.)	484		Wood.	900	166′	29′ 8″	12′ 6″			1899
299	Nasymith, James ..	3422	3162	Steel.	5700	366′	44′	26′	11	3	1896
157	Nau, Libbie	236	198	Wood.	450	129′	26′ 6″	10′			1867
384	Neil, Fannie	451	428	Wood.	900	162′6″	30′ 1″	11′ 6″	5	1	1870
257	New Dominion (Can.)	196		Wood.		117′6″	25′ 3″	9′ 2″			1868
368	Newland, J. B. (Can.)	145		Wood.	300	111′4″	26′ 2″	7′ 7″			1870
170	Norris, Alice B.	692	589	Wood.	1300	194′	32′ 4″	13′ 2″	6		1872
299	No. 137	2480	2367	Steel.	5500	352′	45′	26′	12	3	1896
	Steamers										
259	Oades, John	1454	1225	Wood.	1900	212′	36′	24′			1890
374	Oceanica	1490	1241	Wood.	2500	263′	37′ 3″	21′			1881
296	Odanah	4907	3588	Steel.	7300	420′	52′	28′	23	4	1907
331	Ogdensburg	2329	1673	Steel.	3000	242′	43′	26′ 6″			1906
297	Ogemaw	594	325	Wood	650	162′6″	30′	11′ 4″	3	1	1861
131	Oglebay, E. W.	3666	3019	Steel.	5200	375′	45′	26′	10	3	1896
24	Ohl, Edwin N.	5141	3818	Steel.	7600	420′	54′	28′	23	4	1907
299	Olcott, Wm. J.	7568	5712	Steel.	11500	580′	58′	32′	36	3	1910
258	Olympia	2065	1723	Wood.	2900	276′	41′	22′ 4″	7	1	1889

	Steamers										
163	Omaha (Can.)	1251	800	Wood.	1800	215′	34′	19′	6	1	1887
279	Omega	2080	1217	Comp.	3300	306′	40′	21′ 5″	9	2	1887
361	Onoko	2164	1933	Iron..	3600	287′	38′ 6″	24′ 8″	8	2	1882
270	Ontario	5494	4153	Steel.	8500	444′	56′	30′	25	3	1910
92	Orinoco	2226	1928	Wood.	3400	295′	44′	23′	8	1	1898
147	Orion	2283	1590	Wood.	3200	269′	42′ 3″	17′	8	1	1901
51	Orr, Arthur	2745	2117	Steel.	4500	335′	41′	24′ 7″			1893
51	Orr, Geo. N.	2872	2280	Steel.	4500	326′	42′	26′			1896
92	Osborne, F. M.	4309	3377	Steel.	6300	380′	50′	28′	11	4	1902
397	Osborne, A. W.	4106	3067	Steel.	6400	400′	48′	28′	21	4	1896
367	Osborn, Frank C. ..	681	345	Steel.		155′	37′	10′			1912
357	Osler, E. B. (Can.)..	6786	4361	Steel.	9000	491′	56′	31′	14	5	1907
261	Otis, John	301	254	Wood	450	148′7″	27′ 4″	10′ 6″			1864
114	Owego	2611	1776	Steel.	4000	326′	41′	25′ 6″			1888
144	Owen, John	2127	1609	Comp.	3200	281′	41′	21′	7	1	1889
	Barges										
365	Oak Leaf	395	375	Wood.	750	160′	31′ 2″	10′ 7″			1866
13	Oneida	201	190	Wood.	400	134′1″	24′ 3″	9′ 2″			1857
242	Orton, Minnie E. ..	431	410	Wood.	800	172′	31′	11′ 6″	5	1	1884
345	Our Son	720	684	Wood.	1300	182′1″	35′ 1″	13′	5	1	1875
128	Owen, Geo. B.	744	706	Wood.	1500	196′	34′	13′ 2″	6	1	1893
	Steamers										
302	Packer, H. E. (Can.)	1183	810	Wood.	1500	225′	35′	19′			1882
170	Pahlow, Louis	366	290	Wood.	500	155′	30′	11′	3		1882
180	Paine, Wm. A.	5798	4435	Steel.	8500	480′	52′	30′	28	3	1905
229	Paipoonge (Can.) ..	2517	1634	Steel.	3200	299′	40′	24′ 6″	8	3	1888
2	Paliki (Can.)	1578	993	Steel.	2200	240′	36′	17′	4	2	1889
299	Palmer, Wm. P.	7602	5746	Steel.	11500	580′	58′	32′	34	3	1910
62	Panay	3811	2778	Steel.	5600	356′	50′	28′	10	3	1902


GREEN BAY
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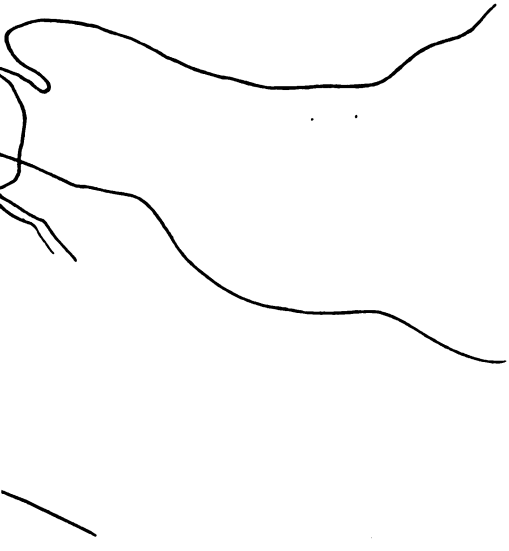

GREEN BAY, WIS.

3. Barkhausen Coal & Dock Co.
7. Barkhausen Coal & Dock Co.
1. Cargill Elevator Co.
8. Central Coal Co.
5. Duncan Fuel Co.
4. Flatley Bros. Co.
2. Hurlbut Co., F.
9. Joannes Brothers.
6. Reiss Coal Co., C.

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GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. Hitchs	No. Comp.	Year Built
	Steamers										
7	Panther	1634	1140	Wood	2100	236′	36′	24′			1890
366	Parent, S. N.	1640	987	Steel.	2600	241′	41′	18′	6	3	1903
225	Parks, O. E.	392	289	Wood.	475	134′5″	28′	11′	3	1	1891
296	Pathfinder	2424	1761	Steel.	4100	320′	42′	25′	9	1	1892
242	Pawnee	639	475	Wood.	900	174′	32′ 6″	13′ 2″	4	1	1889
373	Peavey, Frank H.	5002	3871	Steel.	7000	430′	50′	28′ 6″	13	6	1901
373	Peavey, Geo. W.	4997	3861	Steel.	7000	430′	50′	28′ 6″	13	6	1901
56	Pellatt, H. M. (Can.)	1591	1038	Steel.	1700	239′	37′	24′	4	2	1903
344	Penobscot	4077	3530	Steel.	6700	454′	44′ 6″	26′ 7″	14	4	1895
291	Pentland	827	617	Wood	1150	192′8″	35′ 6″	12′ 3″	5	1	1894
299	Perkins, Geo. W.	6406	4922	Steel.	10500	549′	56′	31′	34	2	1905
296	Perseus	4978	3770	Steel.	8200	464′	50′	28′	14	4	1905
266	Peters	634	561	Wood.	1200	182′8″	32′	13′ 3″	5	1	1883
156	Phenix	1294	1035	Wood.	2200	240′	39′ 6″	18′	6	1	1894
373	Philbin, D. M.	6272	4826	Steel.	9500	504′	54′	30′	30	3	1905
299	Phipps, Henry	7240	5450	Steel.	11500	580′	58′	32′	36	3	1907
177	Plankinton, John	1821	1461	Wood	2700	267′	41′	23′	7	1	1889
56	Plummer, J. H. (Can.)	1582	992	Steel.	1800	246′	37′	24′	5	2	1903
299	Poe, Gen. Orlander M.	5619	4144	Steel.	7800	470′	50′	29′	15	4	1900
24	Pollock, W. G.	4872	3585	Steel.	7300	420′	52′	28′	23	4	1906
180	Polynesia	3640	2596	Steel.	5700	376′	46′	26′	11	3	1897
79	Pontiac	2298	1788	Steel.	3500	300′	40′	24′	8	3	1889
344	Pope, E. C.	2637	2064	Steel.	4100	317′	41′	24′	9	1	1891

	Steamers										
238	Prentice, J. H.	535	398	Wood.	850	167′6″	32′	12′ 2″	4	1	1885
79	Presque Isle	4578	3570	Steel.	6600	406′	50′	28′	12	4	1898
299	Princeton	5125	3820	Steel.	7500	454′	50′	28′ 6″	14	6	1900
127	Pt. Colborne (Can.) .	1729	1306	Steel.	3000	250′	42′ 5″	17′ 8″		3	1909
127	Pt. Dalhousie (Can.)	1744	1129	Steel.	3000	250′	42′ 4″	19′		3	1914
52	Pueblo (Can.)	1493	905	Wood.	2000	228′	36′ 3″	19′		1	1891
	Barges										
92	Paisley	1046	994	Wood.	2100	211′	35′	16′ 6″		1	1893
31	Page, Marion W. ...	762	712	Wood.	1200	193′	34′	13′ 8″	6	1	1876
193	Pellatt, J. H.	346	296	Steel.	1500	179′	35′	15′			1905
4	Pennington, B. L. ..	1142	1085	Wood.	2200	239′	38′ 2″	14′ 6″			1889
31	Peshtigo	633	601	Wood.	1000	201′	34′ 4″	12′	6	1	1889
132	Progress	828	844	Wood.	1800	255′	37′	21′			1880
	Steamers										
299	Queen City	3979	3198	Steel.	5800	400′	48′	28′	12	1	1896
108	Querida (Can.)	1175		Steel.	2000	230′	36′ 5″	18′ 2″	4	2	1909
	Barges										
255	Quebec (Can.)	1016	989	Steel.	1900	206′2″	40′	14′ 6″	6		1901
74	Quickstep	282	268	Wood.	500	140′8″	25′ 3″	10′ 2″			1874
	Steamers										
176	Ralph, P. J.	964	658	Wood.	1200	211′5″	37′	14′	5	1	1889
37	Ranney, R. P.	1627	1233	Wood.	3000	247′6″	36′ 3″	20′ 3″		1	1881
373	Ranney, Rufus P. ..	4797	3505	Steel.	7300	420′	52′	28′	12	4	1908
299	Ream, Norman B. ..	7053	5444	Steel.	11500	580′	58′	32′	36	3	1906
193	Recor, E. P.	368	232	Wood	600	123′	30′	9′ 9″			1902
296	Reed, James H.	5598	4125	Steel.	7700	448′	52′	28′	25	6	1903
397	Rees, W. D.	3760	2992	Steel.	5800	396′	45′	28′	12	4	1896
254	Reis, Wm. E.	4426	2823	Steel.	6800	416′	50′	28′	22	4	1900

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
400	Reiss, John P.	6432	4963	Steel.	9500	504′	54′	30′	30	4	1910
400	Reiss, Peter	5923	4217	Steel.	9500	504′	54′	30′	30	4	1910
246	Reliance	480		Wood.	600	145′	29′	9′ 7″			1881
319	Rend, W. P.	2073	1697	Wood.	3000	287′	40′	21′	8	1	1889
183	Renown	4154	2098	Steel.	Oil	373′	52′	25′			1912
299	Rensselaer	5124	3827	Steel.	7800	454′	50′	28′ 6″	14	2	1900
56	Renvoyle (Can.) ...	1830	1176	Steel.	3400	250′	42′ 7″	18′ 6″	6	3	1910
159	Republic	2991	2052	Steel.	4400	364′	40′	24′ 6″	10	4	1890
24	Rhodes, Joshua W. .	4872	3586	Steel.	7300	420′	52′	28′	23	4	1906
226	Rhodes, R. R. (Can.)	1598	957	Wood.	2400	246′	40′	21′	6	1	1887
263	Rhodes, Wm. Castle	2176	1340	Steel.	3000	242′	42′	26′ 6″			1900
114	Richardson, G. A. ..	2237	1790	Steel.	3000	266′	41′	25′ 6″			1893
299	Roberts, Percival, Jr	7593	5862	Steel.	11700	580′	58′	32′	35	3	1913
24	Robbins, Francis L. .	4222	3036	Steel.	6200	380′	50′	28′	20	3	1905
397	Robbins, S. H.	4909	3617	Steel.	7300	444′	50′	28′ 6″	13	4	1899
156	Robinson, Lucius W	1655	1004	Steel.	3000	244′	43′	21′	6	2	1912
398	Rock Ferry (Can.) .	1398	738	Wood.	2000	235′3″	37′ 2″	18′ 7″	6	1	1882
389	Rochester	4571	3855	Steel.		382′6″	50′	30′			1907
299	Rockefeller, Frank .	2759	2013	Steel.	5200	366′	45′	26′	10	3	1896
299	Rogers, Henry H. ..	7053	5444	Steel.	11500	580′	58′	32′	36	3	1906
120	Rogers, Wm. A.	6524	5101	Steel.	10000	525′	55′	31′	32	3	1905
303	Rolph, John (Can.) .	211	212	Wood	500	136′6″	37′ 8″	10′ 3″			1883
299	Roman	2348	1875	Steel.	3300	296′	40′	24′ 6″	8	3	1891
28	Ross, Myrtle M.	156	108	Wood.	300	114′	20′	8′			1890
56	Rosedale (Can.) ...	1507	977	Steel.	2200	246′	35′	21′		4	1888

	Steamers										
255	Rosemount (Can.) .	1580	989	Steel.	2600	245′	41′	21′ 9″	4	4	1896
322	Roumania	1837	1441	Wood.	2600	273′	39′ 5″	22′ 6″	7	1	1887
132	Rudolph, Wm.	267	209	Wood.	500	145′	23′ 6″	9′ 3″			1880
156	Rugee, John	1216	950	Wood.	1700	216′	35′	20′	5	1	1888
394	Runnells, H. E.	889	629	Wood.	1200	182′	35′	13′	4	1	1893
331	Rutland	2321	1668	Steel.	2800	242′	43′	26′			1906
	Barges										
85	Redington, Nellie ..	816	775	Wood.	1400	205′9″	33′ 8″	13′ 9″			1872
170	Redfern, C. E.	680	646	Wood.	1300	181′	35′	13′ 1″	6	1	1890
56	Reed, Isabella (Can.)	480		Wood.	1000	186′	31′ 5″	11′			1881
363	Resumption	293	278	Wood.	600	143′4″	29′	10′ 3″			1879
56	Rickarton (Can.) ...			Wood.	2200	220′	36′ 2″	22′	7	1	1890
56	Rob Roy (Can.)	341	340	Wood.	650	144′	31′	10′ 3″			1897
299	Roebling, John A. ..	4693	4447	Steel	7900	436′	50′	28′ 6″	15	4	1898
	Steamers										
270	St. Clair	6494	4153	Steel.	8500	444′	56′	30′	25	3	1910
295	St. Joseph	304	171	Wood.	625	146′	29′	11′			1867
63	St. Louis	985	795	Wood.	1200	193′	31′ 9″	11′ 7″			1864
263	St. Paul	2029	1221	Steel.	2800	238′	42′	26′			1897
377	Sachem	739	542	Wood.	Sand	187′	34′	14′ 8″	4	1	1889
92	Sacramento	2380	1903	Wood.	3500	308′	43′	22′ 6″	8	1	1895
216	Saranac	2669	1939	Steel.		290′	41′	26′ 6″			1890
56	Sarnian (Can.)	2656	1710	Steel.	4700	324′	42′	26′ 6″	9	3	1895
216	Sarnor (Can.)	1319	1152	Wood.	1900	219′	36′	17′	5	1	1888
56	Saskatoon (Can.) ..	1798	1148	Steel.	2500	250′2″	42′ 8″	18′ 6″	6	3	1910
92	Saunders, E. N.	4305	3366	Steel.	6300	380′	50′	28′	11	4	1902
159	Saunders, E. N., Jr..	6657	5140	Steel.	9700	525′	55′	31′	32	3	1906
196	Saunders, W. B.	103	45	Steel.		85′	21′	12′			1905
352	Sawyer, Philetus ..	449	308	Wood.	650	152′	31′ 6″	9′ 6″	3	1	1884

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
400	Reiss, John P.	6432	4963	Steel.	9500	504′	54′	30′	30	4	1910
400	Reiss, Peter	5923	4217	Steel.	9500	504′	54′	30′	30	4	1910
246	Reliance	480		Wood.	600	145′	29′	9′ 7″			1881
319	Rend, W. P.	2073	1697	Wood.	3000	287′	40′	21′	8	1	1889
183	Renown	4154	2098	Steel.	Oil	373′	52′	25′			1912
299	Rensselaer	5124	3827	Steel.	7800	454′	50′	28′ 6″	14	2	1900
56	Renvoyle (Can.) ...	1830	1176	Steel.	3400	250′	42′ 7″	18′ 6″	6	3	1910
159	Republic	2991	2052	Steel.	4400	364′	40′	24′ 6″	10	4	1890
24	Rhodes, Joshua W. .	4872	3586	Steel.	7300	420′	52′	28′	23	4	1906
226	Rhodes, R. R. (Can.)	1598	957	Wood.	2400	246′	40′	21′	6	1	1887
263	Rhodes, Wm. Castle	2176	1340	Steel.	3000	242′	42′	26′ 6″			1900
114	Richardson, G. A. ..	2237	1790	Steel.	3000	266′	41′	25′ 6″			1893
299	Roberts, Percival, Jr	7593	5862	Steel.	11700	580′	58′	32′	35	3	1913
24	Robbins, Francis L. .	4222	3036	Steel.	6200	380′	50′	28′	20	3	1905
397	Robbins, S. H.	4909	3617	Steel.	7300	444′	50′	28′ 6″	13	4	1899
156	Robinson, Lucius W	1655	1004	Steel.	3000	244′	43′	21′	6	2	1912
398	Rock Ferry (Can.) .	1398	738	Wood.	2000	235′3″	37′ 2″	18′ 7″	6	1	1882
389	Rochester	4571	3855	Steel.		382′6″	50′	30′			1907
299	Rockefeller, Frank .	2759	2013	Steel.	5200	366′	45′	26′	10	3	1896
299	Rogers, Henry H. ..	7053	5444	Steel.	11500	580′	58′	32′	36	3	1906
120	Rogers, Wm. A.	6524	5101	Steel.	10000	525′	55′	31′	32	3	1905
303	Rolph, John (Can.) .	211	212	Wood	500	136′6″	37′ 8″	10′ 3″			1883
299	Roman	2348	1875	Steel.	3300	296′	40′	24′ 6″	8	3	1891
28	Ross, Myrtle M.	156	108	Wood.	300	114′	20′	8′			1890
56	Rosedale (Can.) ...	1507	977	Steel.	2200	246′	35′	21′		4	1888

	Steamers										
255	Rosemount (Can.) .	1580	989	Steel.	2600	245′	41′	21′ 9″	4	4	1896
322	Roumania	1837	1441	Wood.	2600	273′	39′ 5″	22′ 6″	7	1	1887
132	Rudolph, Wm.	267	209	Wood.	500	145′	23′ 6″	9′ 3″			1880
156	Rugee, John	1216	950	Wood.	1700	216′	35′	20′	5	1	1888
394	Runnells, H. E.	889	629	Wood.	1200	182′	35′	13′	4	1	1893
331	Rutland	2321	1668	Steel.	2800	242′	43′	26′			1906
	Barges										
85	Redington, Nellie ..	816	775	Wood.	1400	205′9″	33′ 8″	13′ 9″			1872
170	Redfern, C. E.	680	646	Wood.	1300	181′	35′	13′ 1″	6	1	1890
56	Reed, Isabella (Can.)	480		Wood.	1000	186′	31′ 5″	11′			1881
363	Resumption	293	278	Wood.	600	143′4″	29′	10′ 3″			1879
56	Rickarton (Can.) ...			Wood.	2200	220′	36′ 2″	22′	7	1	1890
56	Rob Roy (Can.)	341	340	Wood.	650	144′	31′	10′ 3″			1897
299	Roebling, John A. ..	4693	4447	Steel	7900	436′	50′	28′ 6″	15	4	1898
	Steamers										
270	St. Clair	6494	4153	Steel.	8500	444′	56′	30′	25	3	1910
295	St. Joseph	304	171	Wood.	625	146′	29′	11′			1867
63	St. Louis	985	795	Wood.	1200	193′	31′ 9″	11′ 7″			1864
263	St. Paul	2029	1221	Steel.	2800	238′	42′	26′			1897
377	Sachem	739	542	Wood.	Sand	187′	34′	14′ 8″	4	1	1889
92	Sacramento	2380	1903	Wood.	3500	308′	43′	22′ 6″	8	1	1895
216	Saranac	2669	1939	Steel.		290′	41′	26′ 6″			1890
56	Sarnian (Can.)	2656	1710	Steel.	4700	324′	42′	26′ 6″	9	3	1895
216	Sarnor (Can.)	1319	1152	Wood.	1900	219′	36′	17′	5	1	1888
56	Saskatoon (Can.) ..	1798	1148	Steel.	2500	250′2″	42′ 8″	18′ 6″	6	3	1910
92	Saunders, E. N.	4305	3366	Steel.	6300	380′	50′	28′	11	4	1902
159	Saunders, E. N., Jr..	6657	5140	Steel.	9700	525′	55′	31′	32	3	1906
196	Saunders, W. B.	103	45	Steel.		85′	21′	12′			1905
352	Sawyer, Philetus ..	449	308	Wood.	650	152′	31′ 6″	9′ 6″	3	1	1884

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
170	Sawyer, Wm. H. ...	746	581	Wood.	1100	201′	37′	13′	4	1	1890
299	Saxon	2348	1875	Steel.	3300	296′	40′	24′ 6″	8	3	1890
373	Saxona	4710	3441	Steel.	6800	416′	50′	28′	12	4	1903
299	Schiller, Wm. B. ...	7521	5819	Steel.	11500	580′	58′	32′	36	3	1910
378	Schlesinger, Ferd ..	2607	2081	Wood.	3500	305′	43′ 6″	24′ 6″	9	1	1891
277	Schoolcraft	745	595	Wood.	1000	180′	34′	15′	4	1	1884
346	Schoonmaker, Col. J. M.	8663	6650	Steel.	12200	590′	64′	33′	35	3	1912
281	Scotsman (Can.) ...	265	114	Wood.	300	108′	23′ 6″	7′			1903
56	Scottish Hero (Can.)	2202	1386	Steel.	3800	297′	40′	24′	4	4	1895
8	Schuylkill	2205	1819	Steel.		275′	40′	26′			1892
238	Scranton	2015	1595	Steel.	3000	260′	39′	24′ 6″			1888
254	Scranton, Walter ..	4426	3061	Steel.	6800	416′	50′	28′	22	4	1900
249	Seguin (Can.)	1141	771	Steel.	1200	207′	34′ 2″	13′	5	2	1890
254	Sellwood, Joseph ..	6741	5269	Steel.	10000	525′	55′	31′	31	3	1906
241	Senator	4048	3178	Steel.	6000	410′	45′ 6″	28′	13	4	1896
398	Senator Derbyshire (Can.)	1246	987	Wood.	2200	220′	40′	18′	6		1897
276	Seneca	2669	1939	Steel.		290′	41′	24′			1889
71	Seymour, R. A., Jr. .	131	103	Wood.	275	110′	23′	8′			1882
180	Shaughnessy, Sir Thomas	6276	4665	Steel.	8500	480′	52′	30′	28	3	1906
312	Shaw, Chas. H. (Can.)	1489		Wood.		240′	42′	25′			1889
299	Shaw, Howard L. ..	4901	3802	Steel.	7400	428′	51′ 6″	28′	13	4	1900

	Steamers										
159	Shaw, Quincy A. ...	6336	5013	Steel.	9500	504′	54′	30′	30	4	1911
79	Sheadle, J. H.	6924	5476	Steel.	10200	530′	56′	31′	31	3	1906
92	Shenandoah	2251	1880	Wood.	3500	308′	43′	22′ 6″	8	1	1894
346	Shenango	8047	6498	Steel.	11500	585′	58′	32′	35	3	1909
296	Sherwin, John	7159	5744	Steel..	9600	514′	54′	31′	16	4	1906
261	Shores, E. A., Jr. ...	520	396	Wood	750	176′	35′	11′ 6″			1892
6	Shrigley, James H. .	459	364	Wood	700	171′6″	31′	13′	3	1	1881
203	Sicken, M.	212	168	Wood.	350	128′10	26′	10′	3	1	1884
299	Siemans, Sir Wm. ..	4344	3293	Steel.	6000	412′	48′	28′	12	4	1896
373	Sierra	4846	4287	Steel.	7500	438′	52′	28′	13	3	1906
255	Simla (Can.)	1196	730	Wood	1650	225′6″	34′ 8″	15′	6	1	1903
373	Sinaloa	4539	3503	Steel.	6800	416′	50′	28′	23	4	1903
153	Sinbad (Can.)	897	539	Iron..		216′2″	31′ 2″	16′ 2″			1883
296	Sirius	4470	3143	Steel.	6900	416′	50′	28′	12	4	1903
146	Smith, B. Lyman ..	4271	3017	Steel.	6300	380′	50′	28′	11	4	1903
392	Smith, Edward	700	523	Wood	1000	194′	33′	16′ 6″	4	1	1883
146	Smith, Hurlburt W..	4662	3415	Steel.	6800	414′	50′	28′	12	4	1903
146	Smith, L. C.	4702	3418	Steel.	6800	414′	50′	28′	12	4	1902
146	Smith, Lyman C. ...	6200	4916	Steel.	10000	525′	55′	31′	31	3	1905
146	Smith, Monroe C. ..	4281	3016	Steel.	6300	380′	50′	28′	11	4	1903
146	Smith, Wilbert L. ..	4319	3039	Steel.	6300	380′	50′	28′	11	4	1903
346	Snyder, Wm. P. ...	6939	5492	Steel.	10200	530′	56′	31′	31	3	1906
346	Snyder, W. P., Jr. ..	8603	6650	Steel.	12200	590′	64′	33′	35	3	1912
373	Sonoma	4539	3503	Steel.	6800	416′	50′	28′	23	4	1903
373	Sonora	3914	2731	Steel.	5100	346′	48′	28′	10	5	1902
149	Soper, Albert	349	268	Wood	450	143′6″	28′ 3″	10′ 6″			1881
353	Sowards (Can.) ...	191	148	Wood.	400	119′	26′	9′	2		1886
164	Spalding, Jesse	1043	856	Steel.	2000	220′	40′	16′	5	1	1895
317	Spokane	2356	1974	Steel.	3400	310′	38′	24′			1886
180	Squire, F. B.	4582	3694	Steel.	6800	410′	50′	28′	12	4	1903
159	Stackhouse, Powell .	6171	4919	Steel.	9500	504′	54′	30′	30	6	1905

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
56	Stadacona	6014	4654	Steel.	9000	480′	56′	30′	28	6	1909
286	Stafford, W. R.	686	398	Wood.	900	184′10	34′ 3″	12′ 2″	4	1	1886
226	Stanstead (Can.) ...	1549	970	Wood.	1500	256′	36′ 6″	19′ 3′			1881
180	Stanton, John	6129	4668	Steel.	9500	504′	54′	30′	30	3	1905
173	Starke, C. H.	317	266	Wood.	500	149′6″	30′	9′ 7″	3	1	1881
362	Steinbrenner, Henry	4719	3955	Steel.	6800	420′	50′	28′	13	4	1901
92	Steel King	4308	3366	Steel.	6300	380′	50′	28′	11	4	1902
244	Steelton (Can.)	1750	1131	Steel.	2800	250′	42′ 6″	18′ 6″	6	3	1914
299	Stephenson, Geo. ..	4563	3502	Steel.	5800	408′	48′	28′	12	4	1896
363	Stephenson, I. Watson	639	501	Wood.	900	172′	35′	11′·6″			1895
336	Stephenson, S. M. ..	546	426	Wood.	750	166′	33′	12′	4		1880
271	Sterling, John R. ..	1302	1157	Wood.		223′	34′	22′			1871
21	Stewart, A. E.	3943	3049	Steel.	5700	356′	50′	28′	10	3	1902
296	Stone, Amasa	6282	4930	Steel.	10000	525′	55′	31′	31	3	1905
255	Storemount (Can.) .	1957	1231	Steel.	2800	249′7″	42′ 4″	23′	4	2	1907
56	Strathcona (Can.) ..	1881	1465	Steel.	3200	245′	42′ 6″	23′ 8″		2	1900
180	Sullivan, J. J.	7077	5541	Steel.	10200	532′	56′	31′	32	3	1907
373	Sultana	3630	2731	Steel.	5100	346′	48′	28′	10	5	1902
299	Superior City	4795	3693	Steel.	6900	430′	50′	28′ 6″	13	6	1898
389	Superior	4544	3845	Steel.	5000	382′	50′	30′			1905
299	Superior	251	167	Wood.		98′	30′	19′			1890
8	Susquehanna	2781	2347	Steel.	3500	303′	40′	26′ 6″			1886

	Barges											
283	St. Louis (Can.) ...	334		Wood.	500	127'7"	26' 2"	11' 9"			1877
296	Sagamore	3251	2926	Steel.	5500	366'	44'	26'	12	3	1898
288	Sands, Isabella (Can.)	230	231	Wood.		134'	29'	10' 8"			1874
33	Santiago	2600	2525	Wood.	4400	324'	45' 6"	21' 6"	11	3	1899
394	Scotia	903	858	Wood.	1500	210'9"	34' 6"	13' 4"	7	1	1873
255	Selkirk (Can.)	719		Wood.	1200	183'	34' 5"	14' 5"			1894
239	Sephie (Can.)	261		Wood.	500	136'	27' 6"	10' 1"			1889
156	Sherman, W. A.	519	493	Wood.	900	163'	33'	12'			1882
335	Simpson, Lucia A. ..	227	215	Wood.	425	127'	28'	8' 7"			1875
74	Skeele, E. E.	199	189	Wood.	375	122'9"	26' 9"	9'			1856
303	Sligo (Can.)	284		Wood.	500	137'	23'	11' 8"	4		1874
299	Smeaton, John	5049	4725	Steel.	7900	446'	50'	29' 6"	15	4	1899
338	Stafford	199	189	Wood.	375	112'	25' 6"	9' 6"			1868
274	Stanley, H. M. (Can.)	305		Wood.	600	132'	25' 6"	11' 7"			1873
276	Stephenson, Isaac .	461	438	Wood.	850	163'3"	32' 1"	11' 1"			1879
390	Stewart, A.	533	511	Wood.	1000	172'	32' 4"	12' 1"			1889
130	Suffel, W. J. (Can.)	238		Wood.	450	120'	26'	9' 8"			1874
223	Sweetheart	538	512	Wood.	1000	175'4"	32' 6"	13' 4"	5	1	1867
	Steamers										
56	Tagona (Can.)	2003	1299	Steel.	2900	249'7"	46' 7"	23' 6"		3	1908
254	Taylor, Moses	4772	3401	Steel.	6800	416'	50'	28'	12	4	1902
316	Tempest	412	341	Wood.	550	159'	30'	12' 6"	3	1	1872
296	Taurus	4470	3143	Steel.	6900	414'	50'	28'	12	4	1903
2	Taylor, J. F. (Can.)	3428	2029	Steel.	5600	346'	48'	28'	10	3	1901
24	Thompson, Alexis W.	6436	4670	Steel.	9500	504'	55'	30'	30	4	1908
146	Thompson, Smith ..	4786	4227	Steel.	7600	438'	52'	28'	13	3	1907
114	Tioga	2320	1684	Iron..	3200	285'	39'	17'			1885
321	Toiler (Can.)	1659	1334	Steel.	2800	250'	42' 6"	19'		3	1911

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs.	No. Comp.	Year Built
	Steamers										
136	Toltec	767	621	Wood	1200	191'3"	32' 6"	13' 8"	4	1	1889
39	Tomlinson, G. A. ..	6361	4862	Steel.	9500	504'	54'	30'	30	4	1909
211	Topeka	1376	1111	Wood.	2100	228'	36'	20'			1889
159	Townsend, E. Y. ...	7438	5673	Steel.	11500	580'	58'	32'	18	3	1906
299	Trimble, Richard ..	7607	5868	Steel.	12000	580'	58'	32'	35	3	1913
389	Troy	3655	2966	Steel.		398'	45' 6"	28'			1898
39	Truesdale, Wm. H. .	5057	3764	Steel.	7400	432'	52'	28'	24	4	1908
159	Turner, J. J.	6832	5376	Steel.	10200	532'	56'	31'	32	3	1906
56	Turrett Cape (Can.)	1827	1142	Steel.	3200	253'	44'	19' 4"	3	3	1895
56	Turrett Court (Can.)	1881	1197	Steel.	3200	253'	44'	19' 7"	2	2	1896
56	Turrett Crown (Can.)	1827	1142	Steel.	3200	253'	44' 4"	19' 4"	3	3	1895
216	Tuscarora	2386	1679	Steel.	3200	291'	40'	22'			1890
	Barges										
22	Taber, Horace (Can.)	262		Wood	500	138'6"	26' 6"	9' 6"			1867
70	Taylor, J. V.	199	189	Wood	400	125'	26' 2"	8' 9"			1867
214	Teutonia	594	564	Wood.	1200	177'	32'	12' 6"	10		1881
159	Thompson, A. W. ..	2279	2125	Steel.	4300	300'	42'	24'	9	3	1901
299	Thomas, Sidney G. .	3200	2912	Steel.	5700	366'	44'	26'	11	3	1897
111	Three Brothers	349	332	Wood	650	136'6"	25' 9"	12'			1873
255	Thrush (Can.)	584		Wood.	1100	181'	34' 4"	11' 7"			1890
391	Thunder Bay (Can.)	2144		Steel.	4100	302'	40'	25'	9	3	1895
170	Tilden, S. J.	613	582	Wood.	1000	172'	32'	13' 4"			1869
307	Tokio	1385	1316	Wood.	2500	222'2"	38'	19'	6	1	1889
253	Transfer	732		Wood.	1500	200'	33' 9"	13' 7"	7	1	1872

	Barges										
253	Transport	489	460	Wood.	950	168′	31′	12′ 6″	5	1	1873
388	Troy	486	462	Wood.	850	187′4″	30′ 8″	10′ 2″	6	1	1872
170	Tuxberry, A. C.	679	645	Wood.	1300	181′	35′	13′	6	1	1890
276	Twinsisters	806	747	Wood.	1600	204′2″	35′	14′			1889
131	Tyrone	2117	1862	Steel.	4200	301′	41′	24′	9	3	1896
	Steamers										
159	Uhrig, Edward A. ..	6611	5049	Steel.	10200	532′	56′	31′	32	3	1907
165	Umbria	4803	3519	Steel	6800	420′	50′	28′	12	4	1904
114	Underwood, F. D. ..	3314	2499	Steel		319′	44′	27′ 3″			1896
258	United Lumberman (Can.)	399	259	Wood	500	139′	31′ 6″	11′ 7″			1884
198	Upson, Andrew S. .	4442	3120	Steel.	6300	380′	52′	29′	19	3	1909
397	Upson, J. E.	6309	4853	Steel.	9500	504′	54′	30′	30	3	1908
389	Utica	3533	2658	Steel.	4000	325′	44′	30′			1904
275	Utley, E. H.	6287	4861	Steel	9500	504′	54′	30′	30	4	1910
	Barges										
273	Unadilla	396	376	Wood	850	153′6″	30′ 6″	13′ 4″			1862
255	Ungava (Can.)	1226	1226	Steel.	2100	200′	41′	19′	6		1906
238	Uranus	524	498	Wood.	1000	169′	30′	12′ 9″	5	1	1873
	Steamers										
369	Van Allen, D. R. (Can.)	318	216	Wood.	450	136′	26′	10′			1874
205	Valcartier (Can.) ..	3755	2250	Steel.	5600	354′	48′	28′	10	4	1903
299	Van Hise, Chas. R. .	5117	3673	Steel.	7400	446′	50′	29′ 6″	14	4	1900
265	Venezuela	2125	1733	Wood.	2800	263′	42′ 6″	23′	7	1	1897
296	Venus	3719	2766	Steel.	5600	346′	48′	28′	10	3	1901
296	Verona	6186	4765	Steel.	8500	480′	52′	30′	28	4	1907
355	Veronica	1093	888	Wood.	1400	202′	34′ 6″	19′			1886

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	No. H'tchs	No. Comp.	Year Built
	Steamers										
296	Victory	4527	3707	Steel.	7000	452′	48′	27′	14	5	1895
282	Viking	1117	943	Steel.	1800	217′	37′	15′	5	1	1889
127	Volunteer	2316	1506	Wood.	2900	270′	41′ 6″	22′	7	1	1888
19	Vulcan	1759	1366	Steel.	2900	260′	38′	23′	7	3	1889
	Barges										
255	Valencia (Can.)	543		Wood.	1000	178′	30′ 8″	13′ 2″			1888
	Vinland	965		Wood.	1500	216′	36′	13′ 4″			1896
	Steamers										
90	Waccamaw	1359	920	Steel.	2200	243′	40′	18′ 3″	6	1	1900
322	Wade, J. H.	1863	1502	Steel.	3000	266′	38′	23′	7	1	1890
384	Waffle, T. J. (Can.)	202	104	Wood.		105′	22′ 5″	8′			1914
56	Wahcondah (Can.)	1554	996	Steel.	2600	229′	36′ 9″				1903
245	Wainwright	4937	3714	Steel.	7200	420′	52′	29′	12	4	1908
403	Waldo, L. C.	4446	3519	Steel.	7000	452′	48′	28′	14	4	1896
387	Wallace, E. L.	4956	3678	Steel.	7200	420′	52′	28′	12	3	1906
296	Wallace, James C.	6684	5403	Steel.	10300	532′	56′	31′	32	3	1905
366	Wallace, Robert	1640	944	Steel.	2600	241′	41′	18′	6	3	1903
131	Wallula	1924	1415	Wood.	2700	260′	40′	23′ 6″	7	1	1882
180	Walsh, James P.	5630	4772	Steel.	8500	480′	52′	30′	28	4	1905
24	Walters, Thomas	7518	5787	Steel.	11500	580′	58′	32′	36	3	1911
146	Warner, Chas. M.	3812	2733	Steel.	5700	370′	48′	28′	11	4	1902
159	Warner, Randolph S.	3062	2128	Steel.	4300	318′	42′	26′ 6″	9	3	1901

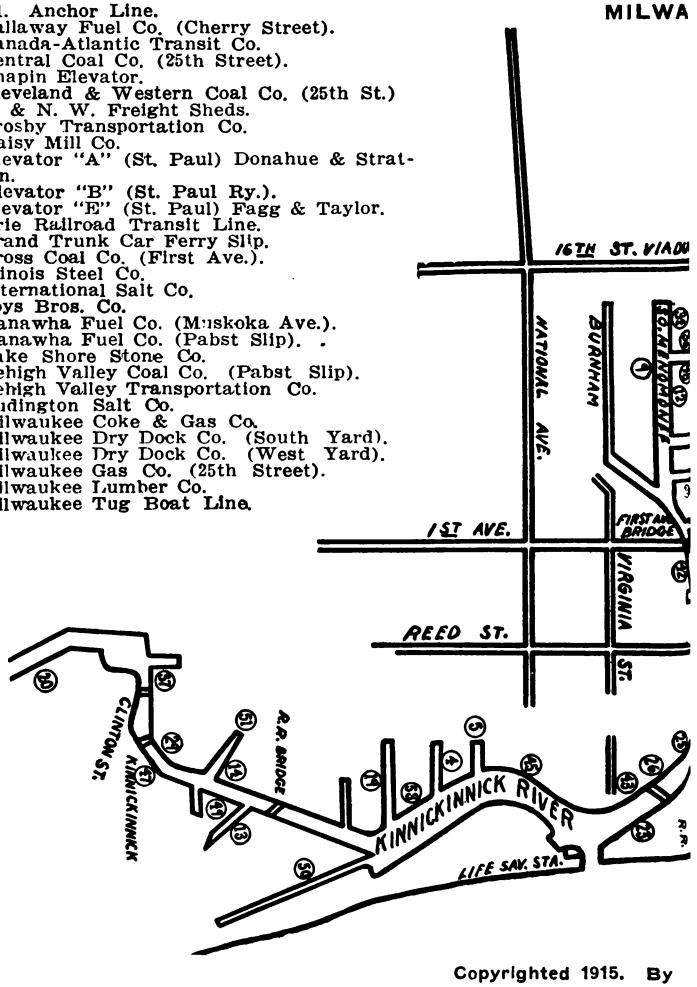
	Steamers											
288	Warren, Homer (Can.)	447	304	Wood.	500	176'6"	29' 6"	11' 8"	4	1	1863
373	Watson, C. W.	4306	3364	Steel.	6300	380'	50'	28'	11	4	1902
299	Watt, James	4090	3105	Steel.	5800	405'	48'	28'	12	4	1896
373	Wells, Frederick B.	4897	3630	Steel.	7000	430'	50'	28' 6"	13	6	1901
314	Wente, R. C.	335	267	Wood.	450	141'	30'	10' 6"			1888
188	Westcott, J. W.	522	451	Wood.	700	169'	31'	12'			1883
155	Westerian (Can.)	988	580	W.&S.	1100	210'	32'	15' 2"			1871
275	Western Star	4764	3593	Steel.	7000	416'	50'	29'	12	4	1903
255	Westmount (Can.)	1875	1171	Steel.	2800	248'7"	42'	26'	5	2	1903
120	Weston, Charles	6996	5511	Steel.	10500	549'	56'	31'	34	3	1906
226	Whitaker, Byron (Can.)	1539	959	Wood.	2300	220'	38'	21'	6		1890
254	White, Pendennis	4382	3205	Steel.	7000	420'	50'	28'	23	3	1906
79	White, Peter	6184	4931	Steel.	9500	504'	54'	30'	30	3	1905
218	White, W. F.			Steel.	10000	530'	60'	31'	30	3	1915
34	Wickwire, Theo. H.	5141	3894	Steel.	8300	444'	56'	28'	13	3	1909
34	Wickwire, Theo. H., Jr.	6077	4927	Steel.	9700	504'	56'	30'	30	4	1910
299	Widener, Peter A. B.	7053	5444	Steel.	11500	580'	58'	32'	36	3	1906
24	Widlar, Francis	4682	3368	Steel.	7000	416'	50'	28'	12	4	1904
131	Williams, Geo. F.	1888	1506	Wood.	3100	280'	41'	22'	7	1	1889
146	Wilkinson, H. S.	3860	3057	Steel.	5700	370'	48'	28'	11	4	1902
216	Wilkesbarre	4153	3311	Steel.	5200	381'7"	50' 5"	28'			1900
346	Wilpen	7612	5851	Steel.	11000	554'	58'	32'	33	4	1907
399	Wilson, Mathew	322	243	Wood	450	141'4"	27' 9"	10' 8"			1888
397	Wilson, Capt. Thomas	4719	3959	Steel.	7000	416'	50'	28'	13	4	1900
255	Windsor (Can.)	1962	1276	Wood.	2500	242'	41'	20'	8		1892
12	Winnipeg	1108	874	Wood.	1500	252'5"	35'	15' 3"	7	1	1878
56	Winona (Can.)	2085	1327	Steel.	3300	252'	43' 4"	23' 9"	6	2	1906

GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	No. Hatchs	No. Comp.	Year Built
	Steamers										
165	Wisconsin	4858	3707	Steel.	6800	420′	50′	28′	12	4	1904
8	Wissahicken	4062	3104	Steel.	4700	350′	46′	30′			1907
290	Wolf, Wm. H. (Old)	2265	1791	Wood.	3400	285′	42′	21′	7	1	1887
366	Wolf, Wm. H.	6281	4767	Steel.	9500	504′	54′	30′	30	4	1908
296	Wolvin, Augustus B.	6585	5311	Steel.	10500	540′	56′	32′	33	1	1904
159	Wood, Joseph	6360	4922	Steel.	9500	504′	54′	30′	30	4	1910
334	Wotan	886	712	Wood	1000	191′6″	36′ 6″	13′ 6″	4	1	1893
198	Wright, Alfred P. ..	2207	1899	Wood	3200	286′	41′ 6″	23′ 8″	8	1	1888
405	Wyandotte	2450	1541	Steel.	2900	346′	45′	24′	18	3	1908
34	Wyoming	1488	934	Wood	2200	241′	40′	14′ 6″			1887
	Barges										
5	Wall, Charles	629	597	Wood	950	194′6″	34′	13′ 2″	6	1	1866
328	Warmington, G. H. (Can.)	559		Wood.	950	170′	31′ 6″	12′ 6″			1872
159	Warriner, S. D. ...	2279	2125	Steel.	4300	300′	42′	24′	9	3	1901
123	Weaver, Jennie	88	83	Wood.	150	97′6″	22′ 6″	7′			1882
83	White Oak (Can.) ..	180		Wood	350	111′	24′ 8″	9′ 5″			1867
288	White & Friant (Can.)	319	278	Wood	700	152′	28′ 7″	11′.3″	4	1	1881
117	Williams, Ellen	274	240	Wood	500	130′	30′	10′ 7″			1856
255	Winnipeg (Can.) ...	734	681	Wood	1300	179′5″	34′ 6″	14′ 5″			1893
228	Wisconsin	532	532	Wood.		181′	30′	20′ 6″			1882
276	Whitbeck, Henry ...	498	473	Wood.	1000	167′6″	33′ 1″	11′			1880

	Barges										
31	Woolson, Mary	708	673	Wood.	1300	179'1"	34' 8"	13' 2"	5	1	1888
343	Wright, A. W.	530	507	Wood	1000	169'7"	33' 3"	10' 8"	4	1	1880
	Steamers										
305	Yale	3453	2698	Steel.	5700	371'	45'	27'	10	4	1895
34	Yates, Harry	6077	4927	Steel.	9700	504'	56'	30'	30	4	1910
244	Yorkton (Can.)	1771	1136	Steel.	2800	250'	42' 6"	18' 6"	6	3	1911
373	Yosemite	3879	3044	Steel.	5600	356'	50'	28'	10	3	1901
397	Yuma	2194	1828	Steel.	4400	320'	42'	23' 6"	9	2	1893
	Barges										
71	York State	277	256	Wood.	500	134'	28' 4"	11'			1869
	Steamers										
299	Zenith City	3850	3429	Steel.	5800	387'	48'	28'	11	4	1895
31	Zillah	748	583	Wood	1100	201'8"	37'	13'	4	1	1890
87	Zimmerman, Eugene	5630	4772	Steel.	8500	480'	52'	30'	14	4	1905
	Barges										
311	Zapotec	779		Wood.	1500	204'7"	34' 7"	14' 6"			1890

1. Anchor Line.
2. Callaway Fuel Co. (Cherry Street).
3. Canada-Atlantic Transit Co.
28. Central Coal Co. (25th Street).
42. Chapin Elevator.
15. Cleveland & Western Coal Co. (25th St.)
43. C. & N. W. Freight Sheds.
46. Crosby Transportation Co.
4. Daisy Mill Co.
6. Elevator "A" (St. Paul) Donahue & Stratton.
18. Elevator "B" (St. Paul Ry.).
9. Elevator "E" (St. Paul) Fagg & Taylor.
7. Erie Railroad Transit Line.
49. Grand Trunk Car Ferry Slip.
8. Gross Coal Co. (First Ave.).
50. Illinois Steel Co.
52. International Salt Co.
54. Joys Bros. Co.
10. Kanawha Fuel Co. (Muskoka Ave.).
36. Kanawha Fuel Co. (Pabst Slip).
11. Lake Shore Stone Co.
12. Lehigh Valley Coal Co. (Pabst Slip).
38. Lehigh Valley Transportation Co.
13. Ludington Salt Co.
14. Milwaukee Coke & Gas Co.
5. Milwaukee Dry Dock Co. (South Yard).
24. Milwaukee Dry Dock Co. (West Yard).
15. Milwaukee Gas Co. (25th Street).
37. Milwaukee Lumber Co.
30. Milwaukee Tug Boat Line.



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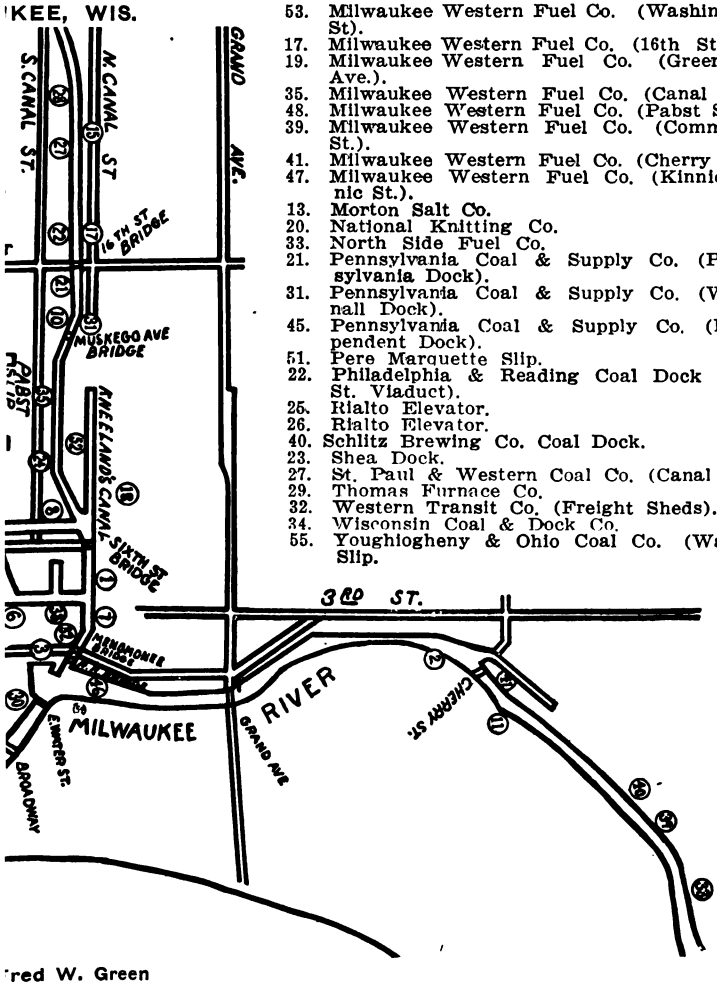

53. Milwaukee Western Fuel Co. (Washington St).
17. Milwaukee Western Fuel Co. (16th St.).
19. Milwaukee Western Fuel Co. (Greenfield Ave.).
35. Milwaukee Western Fuel Co. (Canal St.).
48. Milwaukee Western Fuel Co. (Pabst Slip).
39. Milwaukee Western Fuel Co. (Commerce St.).
41. Milwaukee Western Fuel Co. (Cherry St.).
47. Milwaukee Western Fuel Co. (Kinnickinnic St.).
13. Morton Salt Co.
20. National Knitting Co.
33. North Side Fuel Co.
21. Pennsylvania Coal & Supply Co. (Pennsylvania Dock).
31. Pennsylvania Coal & Supply Co. (Whitnall Dock).
45. Pennsylvania Coal & Supply Co. (Independent Dock).
51. Pere Marquette Slip.
22. Philadelphia & Reading Coal Dock (16th St. Viaduct).
25. Rialto Elevator.
26. Rialto Elevator.
40. Schlitz Brewing Co. Coal Dock.
23. Shea Dock.
27. St. Paul & Western Coal Co. (Canal St.).
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93	Ada Alice (Can.) ...	60	Wood	66′ 5″	13′ 2″	17′ 6″	1879
313	Agwinde (Can.)	307	Wood	105′	22′ 5″	4′	1900
135	Alabama	2626	Steel	250′	44′	17′	1910
58	Alberta (Can.)	2828	Steel	296′ 5″	38′ 2″	23′ 3″	1883
56	Aletha (Can.)	171	Wood	107′ 4″	19′ 7″	5′ 5″	1901
56	Alexandria (Can.) ..	863	Wood	173′ 7″	30′ 6″	8′ 4″	1883
186	Algoma (Can.)	107	Wood	104′	26′ 3″	11′	1901
36	Algomah	486	Wood	127′	33′	11′	1881
35	America	937	Wood & Steel	182′ 6″	27′	13′	1898
56	America (Can.)	521	Wood & Iron	153′ 2″	33′ 2″	6′ 4″	1895
206	Americana	1009	Steel	203′	45′	16′	1908
386	Areil	202	Wood	95′	29′	11′	1881
135	Arizona	1041	Wood	203′	40′	20′ 2″	1889
337	Arrow	365	Wood & Steel	165′	28′	17′ 6″	1895
58	Assiniboia (Can.) ...	3879	Steel	336′	43′ 6″	26′ 6″	1907
58	Athabasca (Can.) ...		Steel	298′ 8″	38′ 2″	23′ 3″	1883
358	Bain, Jessie (Can.)..	67	Wood	70′ 8″	14′ 8″	5′	1888
35	Barker, S. B.	176	Wood	92′	17′	14′	1882
186	Bawating (Can.) ...	199	Wood	104′	29′	22′	1875
242	Beard, James	87	Wood	73′	17′	6′	1873
56	Bellville (Can.)	1223	Iron	200′ 8″	28′	11′	1864
375	Bluebell (Can.)	12	Wood	48′ 5″	8′ 9″	3′ 6″	1888
64	Boeckling, G. A.	328	Steel	140′	30′	9′	1909
162	Bon Ami	227	Wood	108′	22′	5′ 8″	1876
56	Boucherville (Can.) .	419	Wood	178′ 9″	26′ 3″	9′ 2″	1886
99	Britannia	791	Steel	164′	45′	17′ 9″	1906

56	Brockville (Can.) ...	191	Wood	105′	21′ 5″	5′ 7″	1893
206	Canadiana	974	Steel	203′	45′	16′	1910
107	Caribou (Can.)	596	Wood	150′	27′	12′	1904
135	Carolina	1304	Iron	220′	40′	21′	1892
56	Caspian (Can.)	957	Iron	177′ 6″	43′ 4″	6′ 7″	1846
267	Cayuga (Can.)	2167	Steel	306′	36′ 6″	15′	1906
135	Chicago	747	Wood	205′	30′	19′ 7″	1874
267	Chicora (Can.)	930	Wood	221′	26′	10′ 9″	1864
51	Chieftain (Can.)	355	Wood	136′ 8″	24′ 1″	9′ 4″	1873
267	Chippewa (Can.) ...	1514	Wood & Iron	308′ 5″	36′ 3″	12′ 5″	1893
16	Chippewa	453	Iron	201′	28′	12′	1884
100	City of Alpena II....	1735	Wood & Steel	266′	38′ 4″	24′	1893
138	City of Benton Harbor	1286	Steel	248′	37′	15′ 6″	1904
80	City of Buffalo	2940	Wood & Steel	340′ 3″	43′ 5″	17′ 4″	1896
354	City of Chatham (Can.)	362	Wood	125′ 6″	31′ 5″	9′	1888
36	City of Cheboygan ..	247	Wood	98′	29′ 9″	10′	1890
100	City of Cleveland III.	4568	Steel	402′	54′	22′	1907
100	City of Detroit II ...	1919	Wood & Steel	286′	41′	25′ 8″	1889
100	City of Detroit III ..	6061	Steel	472′	55′	22′	1912
310	City of Dresden (Can.)	194	Wood	93′	21′	8′ 9″	1872
80	City of Erie	2498	Wood & Steel	316′	44′	29′	1898
138	City of Grand Rapids	3061	Steel	291′	48′	27′	1912
56	City of Hamilton ...	1574	Wood & Steel	220′	32′ 5″	14′	1871
29	City of London (Can.)	110	Wood	84′	18′	5′ 5″	1886
100	City of Mackinac II .	1749	Wood & Steel	266′	38′	24′ 4″	1893
169	City of Marquette ..	341	Wood	114′	25′	9′	1890
293	City of Meaford (Can.)	328	Wood	111′	24′	8′ 5″	1906
56	City of Midland (Can.)	974	Wood	176′ 4″	28′ 3″	10′ 7″	1890

PASSENGER BOATS OF THE GREAT LAKES—Continued

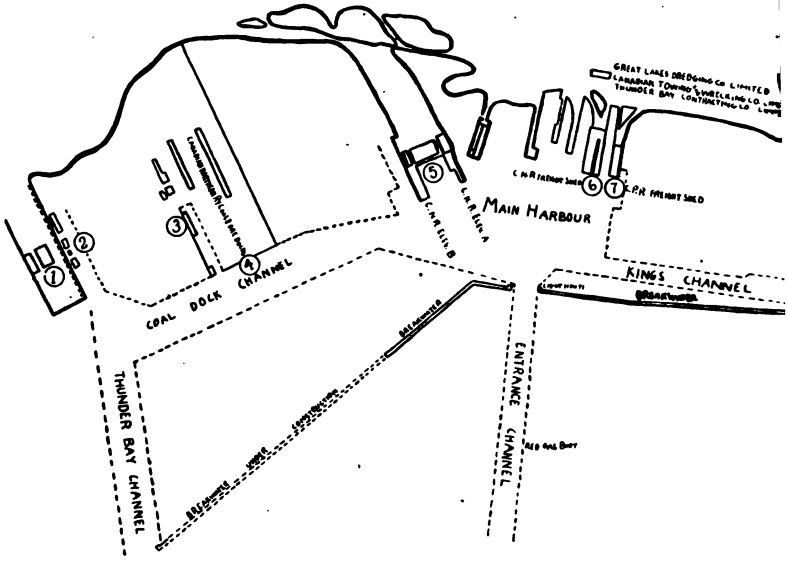
Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
56	City of Ottawa (Can.)	1529	Wood & Iron	220′	32′ 5″	14′	1871
100	City of St. Ignace	1923	Wood & Steel	272′	40′	25′ 6″	1886
75	City of South Haven	1719	Steel	232′	42′	16′	1903
143	City of The Straits	1094	Wood & Steel	234′	34′	22′ 9″	1878
393	City of Toledo	1003	Wood & Steel	212′	31′ 6″	22′ 3″	1891
380	City of Toronto (Can.)	492	Wood	150′	24′	9′ 2″	1895
138	City of Traverse	1153	Wood	214′	31′ 6″	22′	1871
232	Clark, Alfred (Can.)	227	Wood	110′	24′	7′ 6″	1887
351	Clark Brothers (Can.)	92	Wood	80′	16′ 2″	5′ 5″	1890
326	Columbia	139	Wood	109′	21′ 6″	16′ 3″	1893
99	Columbia	968	Steel	216′	45′	12′ 6″	1902
221	Columbia	255	Wood	133′ 6″	29′	9′	1885
135	Columbus, Christopher	1511	Steel	348′	42′	24′	1893
242	Conger, O. D.	199	Wood	92′	26′	11′	1882
267	Corona (Can.)	1274	Steel	270′ 3″	32′ 5″	12′ 5″	1896
89	Crosby, E. G.	1181	Iron	203′ 9″	35′	11′ 7″	1881
172	Dahlia	426	Iron	129′ 5″	25′	11′ 6″	1874
227	Dalhousie City (Can.)	1256	Steel	199′ 8″	37′	20′ 7″	1911
242	Dormer, Grace	65	Wood	71′	17′ 6″	5′ 6″	1868
197	Duchess of York (Can.)	490	Steel	156′ 8″	25′ 3″	9′ 4″	1889
100	Eastern States	3077	Steel	350′	45′ 3″	19′ 6″	1902

356	Eastland	1961	Steel	265′	38′ 2″	19′ 5″	1903
35	Easton	460	Steel	155′	30′	9′ 7″	1896
16	Elva	81	Wood	71′	18′	16′ 6″	1889
66	Empress (Can.)	678	Iron	185′ 3″	27′ 6″	16′	1873
25	Emerald (Can.)	385	Wood	140′	21′ 7″	6′ 8″	1903
386	Essex	266	Steel	94′	36′	14′ 7″	1913
99	Excelsior	229	Wood	116′	25′	13′ 6″	1876
280	Forest City (Can.)	571	Steel	175′	39′ 6″	9′ 6″	1891
268	Garden City (Can.)	637	Steel	177′ 9″	26′	10′	1892
99	Garland	248	Wood	107′	29′	12′	1880
56	Germanic (Can.)	1014	Wood	184′	32′	12′	1899
135	Georgia	895	Wood	196′	34′ 6″	20′	1880
281	Glen Allen (Can.)	276	Comp.	104′	25′	9′	1912
187	Glenn	277	Wood	108′	22′	17′	1889
393	Greyhound	1392	Steel	276′	38′	15′	1902
150	Grimsby (Can.)	700	Wood	185′	26′	9′ 7″	1876
56	Hamilton (Can.)	937	Iron	175′ 2″	25′ 2″	10′ 8″	1895
56	Hamonic (Can.)	5264	Steel	341′	50′	35′	1909
351	Hanlan, John (Can.)	37	Wood	71′	16′	6′	1884
356	Hart, Eugene C.	522	Wood	152′	25′	18′	1890
81	Hayes, R. B.	164	Wood	134′	21′	7′	1876
95	Hazel	66	Wood	87′	18′	14′	1879
138	Holland	1148	Wood & Iron	231′	33′ 6″	22′	1881
172	Hill, Flora M.	525	Steel	140′	25′	10′ 5″	
242	Hiawatha (Can.)	163	Wood	92′ 7″	20′	7′ 6″	1874
359	Huron	538	Wood & Iron	200′	32′	21′	1885
56	Huronic (Can.)	3329	Steel	308′	43′	27′	1902
359	Idlewild	363	Iron	186′	26′ ..	15′ 6″	1879
271	Illinois	2427	Steel	225′	40′	26′	1899
135	Indiana		Wood	223′	35′	24′	1890
331	International (Can.)	95	Wood	182′	30′	10′	1881
375	Island Queen (Can.)	23	Wood	73′	13′ 9″	4′ 4″	1889
16	Islander	291	Wood	139′	23′	17′	1895

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
8	Juniata	4333	Steel	340′	45′	28′	1905
271	Kansas	835	Wood	185′	33′	19′	1876
313	Kenora (Can.)	486		119′ 9″	28′	8′ 3″	1897
58	Keewatin (Can.)	3856	Steel	336′	43′ 6″	26′ 6″	1907
313	Keewatin (Can.)	82	Wood	69′	16′ 5″	6′ 2″	1899
56	Kingston (Can.)	2925	Steel	288′	36′ 2″	13′ 3″	1901
17	Kirby, Frank E.	532	Iron	195′	30′	20′	1890
309	Lakeland	2425	Steel	280′	39′	24′	1887
309	Lake Port		Wood & Iron	263′	36′ 4″	27′	1880
287	Lakeside	337	Steel	148′ 5″	28′	9′ 7″	1901
175	Lakeside (Can.)	348	Wood	121′	26′	9′ 3″	1888
309	Lakewood		Wood & Iron	266′	38′	26′	1884
339	Lapairie (Can.)	600	Wood	197′ 3″	28′	8′ 2″	1869
102	Liberty	143	Wood	97′	19′	13′ 6″	1889
56	Longueuil (Can.)	379	Wood	170′	57′ 5″	9′ 1″	1884
375	Luella (Can.)	38	Wood	66′	13′ 3″	6′	1880
267	Macassa (Can.)	459	Steel	154′ 4″	24′	16′ 3″	1888
16	Mackinac	525	Steel	140′	28′	11′ 6″	1909
56	Majestic (Can.)	1578	Wood	209′	35′	12′ 6″	1895
58	Manitoba (Can.)	2616	Steel	303′	38′	24′ 6″	1889
271	Manitou	2944	Steel	275′	42′	24′ 6″	1893
107	Manitou (Can.)	470	Wood	137′ 2″	24′ 2″	9′ 1″	1903
259	Marion	930	Wood	202′	35′	15′	1889
375	Mayflower (Can.)	189	Steel	140′ 2″	28′ 2″	6′ 8″	1890
169	Maywood	398	Steel	130′	28′	10′ 6″	1905
351	Mazeppa (Can.)	146	Wood	101′	20′	5′ 7″	1884

27	McVey, Charles	331	Wood	132′	26′	17′ 6″	1889
235	Michipicotin (Can.) .	511	Wood	117′	24′ 8″	11′	1883
168	Minnie M. (Can.) ..	613	Wood	140′	30′	10′	1884
271	Minnesota	3320	Steel	286′	41′	26′	1888
271	Missouri	2434	Steel	225′	40′	16′	1904
306	Miss Vanderberg (Can.)	266		99′	20′	9′	
267	Modjeska (Can.) ...	678	Steel	178′	31′	12′ 3″	1889
56	Montreal (Can.)	4282	Steel	332′ 4″	43′ 5″	14′ 8″	1904
35	Moore, C. W.	383	Wood	124′	24′ 6″	16′	1881
56	Murray Bay (Can.)..	969	Iron	251′	34′ 7″	7′ 9″	1887
56	New Island Wanderer	195	Wood	116′	21′	7′	1888
56	News Boy	199	Wood	104′	22′	6′	1889
369	Niagara (Can.)	396	Iron	159′	21′	10′ 4″	1856
185	Niagara Frontier ...	421	Steel	121′	38′	14′	1910
259	Normandie	562	Wood	160′	35′	11′ 6″	1894
56	Noronic (Can.)	6905	Steel	362′	52′	28′ 9″	1913
72	North American	2317	Steel	259′	47′	18′ 3″	1913
56	North King (Can.) ..	873	Wood	175′	43′	10′	1868
272	North Land	4244	Steel	358′	44′	24′	1895
272	North West	4244	Steel	358′	44′	24′	1894
89	Nyack	1188	Wood	231′	33′	24′	1878
8	Octorora	4329	Steel	340′	45′	28′	1910
44	Olcott (Can.)	337	Steel	148′ 5″	28′	9′ 7″	1901
243	Ongiara (Can.)	98	Wood	90′ 5″	18′ 4″	5′ 4″	1885
69	Ossifrage (Can.)	303	Wood	161′ 6″	27′ 8″	9′	1886
56	Outing	18	Wood	61′	11′	4′	1892
393	Owana	747	Wood & Steel	200′	32′	20′	1899
401	Pelee (Can.)	538	Steel	137′	24′	11′ 3″	1914
213	Pennsylvania (Can.).	428	Wood	158′	35′ 4″	8′ 4″	1901
199	Pere Marquette No. 3	924	Wood	190′	33′	22′	1887
199	Pere Marquette No. 4	941	Wood	186′	34′ 6″	22′	1888
199	Pere Marquette No. 5	1722	Wood	226′	38′	26′	1890



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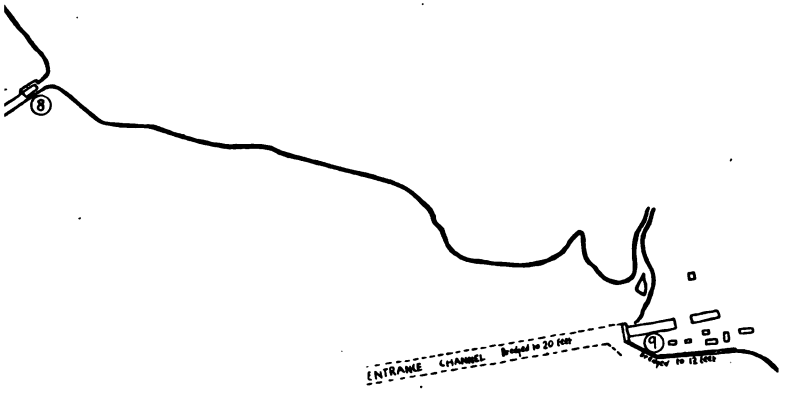
3. Atikoken Iron Co.
4. Canadian Northern Ry., Coal & Ore docks.
5. Canadian Northern Ry., (Elevators "A" & "B").
6. Canadian Northern Ry., (Freight Sheds).
7. Canadian Northern Ry., (Freight Sheds).



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Western Dry Dock & Shipbuilding Co., Ltd.

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PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
199	Pere Marquette No. 6	371	Wood	125′	27′	9′ 6″	1888
199	Pere Marquette No. 7	141	Wood	112′	22′	11′	1903
199	Pere Marquette No. 8	691	Wood	171′	35′	20′	1888
75	Petoskey	770	Wood	171′	30′	20′	1888
56	Philippe, Louis (Can.)	600	Steel	162′	37′	12′ 3″	1914
56	Pierrepont (Can.)	252	Wood & Iron	123′	18′ 8″	7′ 1″	1871
99	Pleasure	489	Wood	128′	39′	13′ 7″	1894
221	Plow Boy	114	Wood	78′	21′	6′	1887
56	Plumb, Henry	92	Wood	79′	18′	6′	1874
	Prescott (Can.)	1107	Wood	195′	27′ 8″	9′	1873
375	Primrose (Can.)	189	Steel	140′	28′	6′ 8″	1890
66	Princess (Can.)	527	Wood	141′ 9″	22′ 4″	7′ 8″	1872
99	Promise	473	Wood	119′	38′	15′	1892
138	Puriton	1762	Steel	260′	40′	24′ 6″	1901
17	Put-in-Bay	1182	Steel	227′	46′	17′ 3″	1911
56	Quebec (Can.)	3453	Steel	303′	39′	12′	1906
73	Racine	1089	Steel	173′ 5″	31′ 6″	20′ 8″	1901
56	Ramona	57	Steel	95′	13′	7′	1886
56	Rapids King (Can.)	1801	Steel	230′	40′ 7″	10′	1907
56	Rapids Prince (Can.)	1384	Steel	196′ 6″	37′	9′ 8″	1910
56	Rapids Queen (Can.)	1307	Steel	194′ 4″	33′ 3″	8′ 8″	1892
263	Reliance (Can.)	311	Comp.	124′	23′	11′ 6″	1892
323	Rideau King (Can.)	266	Wood	107′	23′ 4″	6′	1893
323	Rideau Queen (Can.)	351	Wood	108′	27′ 3″	6′ 9″	1900
184	Rochester	1603	Steel	246′ 6″	42′	14′ 9″	1910
184	Roosevelt, Theo.	1955	Steel	264′	40′	16′	1906
56	Saguenay (Can.)	2777	Steel	258′	40′	14′ 9″	1911
162	Sailor Boy	162	Wood	91′	24′	6′ 6″	1891
186	Saint Louis	985	Wood	193′	31′ 6″	13′ 9″	1864

99	Sappho	223	Wood	107′	31′	13′	1883
56	Saronic (Can.)	1960	Wood	253′	36′	23′	1882
80	Seeandbee	6381	Steel	485′	58′	23′ 6″	1913
78	Soo City (Can.)	500	Wood	135′	25′	9′	1889
72	South American		Steel	291′	47′	18′	1914
100	State of New York	807	Wood & Iron	203′	32′	21′	1883
80	State of Ohio	1221	Wood & Iron	225′	32′	22′	1880
99	Ste. Claire	870	Steel	181′	50′	17′ 6″	1910
56	St. Irenee (Can.)	1768	Iron	248′	31′	11′	1866
56	St. Lawrence (Can.)	312	Wood	154′	21′	7′	1884
56	Syracuse (Can.)	2105	Steel	205′ 6″	43′ 6″	11′ 6″	1911
56	Tadausac (Can.)	1701	Wood	248′ 4″	34′ 7″	9′ 6″	1879
393	Tashmoo	1344	Steel	306′	36′	22′ 3″	1900
162	Thistle	49	Wood	80′	14′	6′	1887
56	Thousand Islander	355	Steel	164′	32′	9′ 6″	1912
8	Tionesta	4329	Steel	340′	45′	28′	1903
56	Toronto (Can.)	2779	Steel	269′ 4″	36′	13′ 8″	1899
104	Tourist	64	Steel	76′	18′	8′	1909
375	Trillium (Can.)	673	Steel	135′	30′	8′ 4″	1910
56	Trois Rivieres (Can.)	1449	Iron	219′ 8″	32′	9′ 6″	1869
267	Turbinia (Can.)	1064	Steel	250′	33′	13′	1904
185	United Shores	336	Steel	150′ 6″	38′	12′ 1″	1911
184	United States	1373	Steel	200′	40′	17′	1909
56	Varuna (Can.)	134	Wood	94′ 4″	17′	5′ 1″	1880
135	Virginia	1606	Steel	269′	38′	24′	1891
99	Victoria	192	Wood	96′	28′	11′ 6″	1872
381	Victoria (Can.)	181	Wood	100′	21′	5′ 6″	1899
36	Wau-Kon	137	Wood	95′	19′	16′	1883
56	Waubic (Can.)	504	Steel	135′	25′	9′	1909
393	Wauketa	903	Steel	175′	38′ 4″	14′	1908
64	Wehrle, A., Jr.	421	Wood	148′	26′ 6″	9′	1888
100	Western States	3077	Steel	350′	45′ 3″	19′ 6″	1902
294	Where-Now (Can.)	48	Wood	77′	12′ 8″	6′ 6″	1889
271	Wisconsin	769	Wood	181′	30′	20′ 6″	1882
27	Woods, Frank	384	Wood	120′	26′	18′	1888

CAR FERRIES OI

Fleet No.	STEAMERS	Net Tonnage	Gross Tonnage	Built of	Keel Length
11	Str. Ann Arbor No. 3	996	1677	Steel.	259′
11	Str. Ann Arbor No. 4	1082	1884	Steel.	259′
11	Str. Ann Arbor No. 5	1961	2884	Steel.	378′
289	Str. Ashtabula	1525	2670	Steel.	338′
36	Str. Chief Wawatam	1793	2990	Steel.	332′
383	Str. Detroit	1307	2089	Steel.	284′
140	Str. Grand Haven	1643	2320	Steel.	306′
139	Str. Great Western (Can.)	662	1080	Iron..	220′
139	Str. Huron (Can.)	688	1052	Iron..	238′ 5″
347	Str. International (Can.)	559	851	W.& I.	210′
139	Str. Lansdowne (Can.)	908	1571	Iron..	294′
54	Str. Lyon, Charles (Can.)	1127	1600	Steel.	248′
208	Str. Marquette & Bessemer No. 1	998	1732	Steel.	241′
230	Str. Marquette & Bessemer No. 2	1516	2583	Steel.	338′
59	Str. Michigan (Can.)	1349	1730	Steel.	297′
193	Str. Michigan Central	999	1522	Iron..	263′
140	Str. Milwaukee	1755	2933	Steel.	338′
59	Str. Ontario (Can.)	1018	1615	Steel.	297′
294	Str. Pere Marquette	1634	2443	Steel.	338′
294	Str. Pere Marquette No. 14	1655	2531	Steel.	350′
294	Str. Pere Marquette No. 16	1317	1938	Wood.	283′
294	Str. Pere Marquette No. 17	1685	2775	Steel.	338′
294	Str. Pere Marquette No. 18	1669	2777	Steel.	338′
294	Str. Pere Marquette No. 19	1548	2626	Steel.	338′
294	Str. Pere Marquette No. 20	1491	2626	Steel.	338′
391	Str. St. Ignace	600	1199	Wood	215′
391	Str. St. Marie	1620	2383	Steel.	332′
383	Str. Transfer	1060	1511	Steel.	265′
383	Str. Transport	797	1594	Iron..	254′

THE GREAT LAKES

ENSIONS		Year Built	By Whom Built	Where Built
Beam	Depth			
'	18' 6"	1898	Globe Iron Works.	Cleveland, Ohio.
'	19'	1906	American Ship Building Co.	Cleveland, Ohio.
'	21'	1910	Toledo Ship Building Co.	Toledo, Ohio.
'	20' 6"	1906	Great Lakes Eng. Works.	St. Clair, Mich.
'	25'	1911	Toledo Ship Building Co.	Toledo, Ohio.
'	19' 6"	1904	Great Lakes Eng. Works.	Ecorse, Mich.
'	20'	1903	Craig Ship Building Co.	Toledo, Ohio.
' 2"	13'	1866	Grand Trunk Ry. Co.	Windsor, Ont.
' 9"	12' 8"	1875	Smith.	Pt. Edward, Ont.
'	12' 8"	1872		Ft. Erie, Ont.
' 3"	13'	1884	Detroit Dry Dock Co.	Detroit, Mich.
'	22'	1907	Polson Iron Works.	Toronto, Ont.
'	21' 6"	1904	Buffalo Ship Building Co.	Buffalo, N. Y.
'	19' 6"	1910	American Ship Building Co.	Cleveland, Ohio.
'	15'	1891	F. W. Wheeler & Co.	W. Bay City, Mich.
' 6"	15' 6"	1884	Detroit Dry Dock Co.	Wyandotte, Mich.
'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
' 3"	14' 9"	1891	Polson Iron Works.	Owen Sound, Ont.
'	21'	1904	Detroit Ship Building Co.	Detroit, Mich.
'	28'	1896	F. W. Wheeler & Co.	W. Bay City, Mich.
'	19'	1895	Craig Ship Building Co.	Toledo, Ohio.
'	19' 6"	1901	American Ship Building Co.	Cleveland, Ohio.
'	19' 6"	1910	American Ship Building Co.	Chicago, Ill.
'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
'	16'	1888	Detroit Dry Dock Co.	Detroit, Mich.
'	25'	1913	Toledo Ship Building Co.	Toledo, Ohio.
6"	17'	1888	Cleveland Ship Bldg. Co.	Cleveland, Ohio.
	14' 9"	1880	Detroit Dry Dock Co.	Wyandotte, Mich.

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STEAMSHIP CORPORATIONS

From Green's Marine Directory of the Great Lakes

Acme Transit Co.	Fleet No. 165
Adams Transportation Co.	" 87
Algoma Central Steamship Co., Ltd.	" 2
Alva Steamship Co.	" 400
American International S. S. Co.	" 4
American Steamship Co.	" 34
American Steamship Co.	" 240
American Steamship Co.	" 7
Ann Arbor Steamship & Ry. Lines	" 11
Ashtabula Steamship Co.	" 322
Argo Steamship Co.	" 14
Arnold Transportation Co.	" 16
Atlas Steamship Co.	" 19
Bassett S. S. Co.	" 23
Benton Transit Co.	" 27
Bradley Transportation Co.	" 31
Brockville Transportation Co., Ltd.	" 65
Brown Steamship Co.	" 39
Brown Steamship Co.	" 42
Buckeye Steamship Co.	" 198
Buffalo Steamship Co.	" 254
Cabotia Steamship Co., Ltd.	" 47
Cadillac Steamship Co.	" 275
Cadwell Transit Co.	" 48
Calbrick Transportation Co.	" 176
Calcite Transportation Co.	" 49
Calumet Transportation Co.	" 159
Cambria Steamship Co.	" 159
Canada Atlantic Transit Co., Ltd.	" 51
Canada Cement Transport Co., Ltd.	" 52
Canada Lake Transportation Co., Ltd.	" 53
Canada Steamship Lines, Ltd.	" 56
Canadian Northwest Steamship Co., Ltd.	" 229
Canadian Pacific Car and Passenger Transfer Co.	" 54
Carrollton S. S. Co.	" 61
Chatham Navigation Co., Ltd.	" 69
Chicago, Duluth & Georgian Bay Transit Co.	" 72
Chicago Transportation Co.	" 74
Chicago Navigation Co.	" 366
Chicago, Racine & Milwaukee Line	" 73
Chicago & South Haven Line	" 75
Christopher Steamship Co.	" 366
Cleveland Steamship Co.	" 254
Cleveland & Buffalo Transit Co.	" 80
Columbia Steamship Co.	" 24
Continental Steamship Co.	" 373
Corsica Transit Co.	" 180
Crosby Transportation Co.	" 89
Dakota Steamship Co.	" 378
Davidson Steamship Co.	" 92
Dearborn Transit Co.	" 387
Deist Steamship Co.	" 95

Detroit & Windsor Ferry Co.	Fleet No.	99
Detroit Steamship Co.	"	366
Detroit & Cleveland Navigation Co.	"	100
Dominion Transportation Co., Ltd.	"	107
Duluth Steamship Co.	"	373
Donald Steamship Co., Ltd.	"	108
Douglass Steamship Co.	"	39
Eastern Steamship Co.	"	159
Eastland Navigation Co.	"	115
Edgewater Steamship Co.	"	366
Empire Steamship Co.	"	39
England Transit Co.	"	24
Erie & Western Transportation Co.	"	8
Erie Railroad Lake Line	"	114
Erie Steamship Co.	"	62
Escanaba & Garden Bay Transportation Co.	"	116
Fairhaven Transportation Co., Ltd.	"	398
Fairport Transportation Co.	"	277
Farrar Transportation Co., Ltd.	"	119
Franklin Transportation Co.	"	159
Franklin Steamship Co.	"	275
Frontier Transit Co.	"	12
Frontier Steamship Co.	"	120
Gartland Steamship Co.	"	366
Georgian Bay Navigation Co.	"	78
Gilchrist Transportation Co.	"	131
Globe Steamship Co.	"	373
Goodrich Transit Co.	"	135
Goshawk Transportation Co.	"	31
Graham & Morton Transportation Co.	"	138
Grand Island Steamship Co.	"	79
Gratwick S. S. Co.	"	254
Great Lakes Steamship Co.	"	146
Great Lakes Transportation Co., Ltd.	"	301
Great Lakes & St. Lawrence Transportation Co.	"	366
Green Bay Vessel Co.	"	147
Grimsby Beach & South Shore Nav. Co.	"	150
Hart Transportation Co.	"	162
Hanna Transit Co.	"	322
Hawgood & Avery Transit Co.	"	165
Hill Steamboat Co.	"	169
Hopkins Steamship Co.	"	79
Hopkins Transportation Co.	"	31
Hubbard Steamship Co.	"	332
Indiana Transportation Co.	"	184
Inland Steamship Co.	"	180
International Ferry Co.	"	185
International Transit Co.	"	186
Inter-State Steamship Co.	"	24
Inter-Ocean Steamship Co.	"	373
Interlake Steamship Co.	"	296
Island Transportation Co.	"	36
Jackson Transit Co.	"	322
Jenkins Steamship Co.	"	180
Jenness Transportation Co.	"	31
Kalkaska Steamship Co.	"	176
Kelly Island Lime & Transport Co.	"	193

Keystone Transportation Co. of Canada, Ltd.	Fleet No.	195
Kinney Steamship Co.	"	198
Kinsman Transit Co.	"	362
La Belle Steamship Co.	"	159
Lake Coast Trading Co., Ltd.	"	369
Lake Erie Excursion Co.	"	206
Lake Erie Navigation Co.	"	208
Lake Erie Transportation Co.	"	207
Lake Transit Co.	"	344
Lake Ontario & Bay of Quinte Steamboat Co., Ltd.	"	218
Lake Steamship Co.	"	34
Lakeside Steamship Co.	"	212
Lakewood Steamship Co.	"	180
Lehigh Steamship Co.	"	164
Lehigh Valley Transportation Co.	"	216
Limestone Transportation Co.	"	218
Mackay-Hall Steamship Co.	"	226
Mahoning Steamship Co.	"	159
Marquette & Bessemer Dock & Nav. Co.	"	230
Masaba Steamship Co.	"	342
Matthews Steamship Co., Ltd.	"	244
McLachlan Transportation Co.	"	237
Michigan Navigation Co.	"	220
Michigan Steamship Co.	"	241
Midland Transportation Co., Ltd.	"	247
Milinokett Steamship Co.	"	344
Miller Steamship Co.	"	39
Miller Transit Co.	"	322
Milwaukee Steamship Co.	"	252
Milwaukee-Western Steamship Co.	"	378
Monroe Transportation Co.	"	87
Montreal Transportation Co., Ltd.	"	255
Montreal & Cornwall Navigation Co., Ltd.	"	256
Moore Steamship Co.	"	260
Morden Transportation Co.	"	258
Mutual Steamship Co.	"	373
Mutual Transit Co.	"	263
National Steamship Co.	"	240
National Steamship Co.	"	373
Niagara Navigation Co., Ltd.	"	267
Niagara Transit Co.	"	120
Niagara, St. Catharines & Toronto Nav. Co., Ltd.	"	268
Nicholas Transit Co.	"	361
Nipigon Transit Co.	"	269
North American Steamship Co.	"	400
Northern Lakes Steamship Co.	"	270
Northern Michigan Transportation Co.	"	271
Northern Steamship Co.	"	272
Northwestern Transportation Co.	"	385
Norton Transit Co.	"	322
Omega Transportation Co.	"	279
Ontario & Ohio Navigation Co.	"	280
Ottawa Transportation Co., Ltd.	"	281
Ottawa River Navigation Co.	"	301
Owen Transportation Co., J. Emery	"	144
Page Transportation Co.	"	31
Parry Sound Transportation Co.	"	249

Pawnee Boat Co.	Fleet No.	242
Peavey Steamship Co.	"	373
Pelee Island Transportation Co.	"	309
Pennsylvania Steamship Co.	"	34
Pennsylvania Steamship Co.	"	290
Pennsylvania & Ontario Transportation Co.	"	289
Peninsular Steamboat Co.	"	287
Pentland Steamship Co.	"	291
Peoples Steamboat Co., Ltd.	"	313
Petrol Traffic Co.	"	282
Pioneer Steamship Co.	"	180
Pittsburgh Steamship Co.	"	299
Postal Steamship Co.	"	21
Potter-Teare Transit Co.	"	304
Portage Lake Steamship Co.	"	221
Presque-Isle Transportation Co.	"	79
Pt. Huron Navigation Co.	"	250
Pt. Huron & Duluth Steamship Co.	"	309
Pt. Huron & Sarnia Ferry Co.	"	242
Quebec Transportation & Forwarding Co., Ltd.	"	311
Quebec & Levis Ferry Co., Ltd.	"	312
Rainey River Navigation Co., Ltd.	"	313
Raleigh Steamship Co.	"	402
Republic Transportation Co.	"	159
Richardson Transportation Co.	"	322
Rideau Lakes Navigation Co., Ltd.	"	323
River Transit Co.	"	238
Rochester Steamship Co.	"	34
Rochester Transportation Co.	"	77
Rogers Transportation Corporation	"	302
Rutland Transit Co.	"	331
Saginaw Bay Transportation Co.	"	332
Sandusky & Islands Steamship Co.	"	337
Scott Steamship Co.	"	159
Seither Transit Co.	"	24
Shenango Steamship Co.	"	346
Shenango Steamship & Transportation Co.	"	346
Shoal Water Transportation Co.	"	407
Smith-Kitzinger Transportation Co.	"	374
Spokane Steamship Co.	"	318
Star-Cole Line	"	359
Stewart Transportation Co.	"	21
St. Lawrence River Steamboat Co.	"	358
St. Lawrence & Chicago Steam Navigation Co., Ltd.	"	357
St. Lawrence Transportation Co., Ltd.	"	385
Superior Steamship Co.	"	373
Tonawanda Transit Co.	"	120
Toledo Steamship Co.	"	87
Toronto Ferry Co., Ltd.	"	400
Triton Steamship Co.	"	373
Valley Steamship Co.	"	24
Victoria Navigation Co., Ltd.	"	381
Virginia Steamship Co.	"	159
Volunteer Transit Co.	"	382
Vulcan Steamship Co.	"	94
Wainwright Steamship Co.	"	245
Western Transit Co.	"	389

Western Navigation Co., Ltd.	Fleet No. 280
White Star Line	" 393
White Transportation Co.	" 394
Wilson Transit Co.	" 397
Windsor & Pelee Island S. S. Co., Ltd.	" 401
Winnipeg S. S. Co.	" 403
Wisconsin Steamship Co.	" 378
Wolverine Steamship Co.	" 241
Wyandotte Transportation Co.	" 405
Wyoming Steamship Co.	" 34
Yale Transit Co.	" 34
York Steamship Co.	" 34
Zenith Steamship Co.	" 373
Zillah Transportation Co.	" 31

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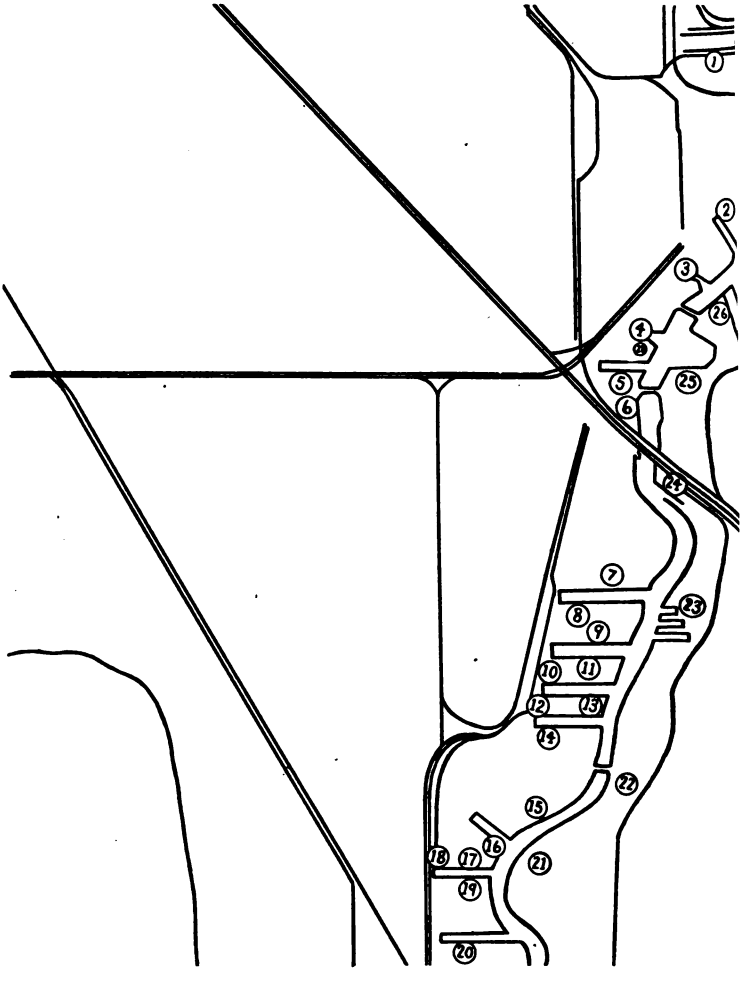
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19. American Linseed Co.
20. By-Products Coke Corporation (112th St.).
3. Car Ferry Slip.
9. Calumet Elevators "A," "B" & "C."
6. Calumet River Elevator (96th Street).
23. Chicago Ship Building Co.
21. Federal Furnace Co. (108th Street).
25. Hedstrom & Co., E. L. (95th Street).
1. Illinois Steel Co. (North Dock).
2. Illinois Steel Co. (South Dock).
17. International Harvester Co.
8. International Salt Co.
13. International Salt Co.
16. Irondale Elevator "A" (107th Street).
27. Iroquois Iron Co.
22. Keystone Elevator.
7. Lehigh Valley Coal Co. (100th Street).
24. Merritt Elevator.
11. Peavey Elevators "A" & "B."
5. Philadelphia & Reading Coal Co. (95th St.).
28. Pittsbugh Coal Co.
12. Rialto Elevator "A" (104th St.).
15. Rock Island Dock.
4. South Chicago Elevators "C" & "D."
14. Star & Crescent Milling Co.
26. Tug Office.
10. United States Gypsum Co.
18. Wisconsin Steel Co. (109th St.).

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Fred W. Green

Card of Wages Lake Carriers' Association

Season 1914

STEEL STEAMERS

First Class

	Per Month
Chief Engineers	$ 175.00
1st Assistant Engineers	125.00
2d Assistant Engineers	84.00
Class A See Note	Class B See Note
Chief Engineers	$ 155.00
1st Assistant Engineers	110.00
2d Assistant Engineers	84.00
1st Mates	130.00
2d Mates	90.00
Boatswains, to Oct. 1	60.00
Boatswain, Oct. 1st to close of navigation	70.00
Cooks, Vessels over 4,000 gross tons	90.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Porters, to Oct. 1st	30.00
Porters, Oct. 1st to close of navigation	35.00
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders, to Oct. 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen, to Oct. 1st	55.00
Wheelsmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelsmen, to Oct. 1st	50.00
Wheelsmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	35.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

STEEL STEAMERS

Second Class

Chief Engineers. Bulk freight steamers 500 to 2,100 tons	$ 140.00
Assistant Engineers. Bulk freight steamers 500 to 2,100 tons	100.00
Chief Engineers, steel package freight steamers 1,800 to 3,000 gross tons	155.00

Note

Class A—Steel Steamers of over 4,000 gross ton government register. Steamers 4,000 to 5.500 gross tons carry third engineer only when equipped with water tube boilers and mechanical stokers.

Class B—Steel bulk freight Steamers of 2,100 to 4,000 gross tons government register, and steel package freight. Steamers over 3,000 gross tons, government register. Steel bulk freighters this class carry third engineer only when equipped with water tube boilers and mechanical stoker.

Boatswains shall be carried on all boats of over 4,500 gross tons, government register.

	Per M.
1st Assistant Engineers, steel package freight steamers, 1,800 to 3,000 gross tons	$ 110.00
1st Mates	112.00
2d Mates	78.00
Cooks, vessels less than 4,000 gross tons	78.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Porters, to Oct. 1st	30.00
Porters, Oct. 1st to close of navigation	35.00
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders. to Oct. 1st	52.50
Firemen, Oilers and Water Tenders. Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen, to Oct. 1st	55.00
Wheelsmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelsmen, to Oct. 1st	50.00
Wheelsmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

Third Class

Chief Engineers, under 500 tons	$ 105.00
Assistant Engineers, under 500 tons	75.00
1st Mates	90.00
2d Mates (when carried)	60.00
Cooks	78.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders, to Oct. 1st	52.50
Firemen, Oilers and Water Tenders. Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen, to Oct. 1st	55.00
Wheelsmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelsmen, to Oct. 1st	50.00
Wheelsmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

WOODEN STEAMERS

First Class

Chief Engineers. Bulk freight steamers over 1,200 tons. Package freight steamers over 750 tons	$ 140.00
Assistant Engineers. Bulk freight steamers over 1,200 tons. Package freight steamers over 750 tons	100.00
1st Mates	112.00
2d Mates	78.00
Cooks	78.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Porters, to Oct. 1st	30.00
Porters, Oct. 1st to close of navigation	35.00
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders, to Oct. 1st	52.50

	Per M.
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	$ 65.00
Wheelsmen-Lookoutsmen, to Oct. 1st	55.00
Wheelsmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelsmen, to Oct. 1st	50.00
Wheelsmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

WOODEN STEAMERS

Second Class

Chief Engineers. Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	$ 125.00
Assistant Engineers. Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	100.00
1st Mates	94.00
2d Mates (when carried)	62.50
Cooks	78.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders, to Oct. 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen, to Oct. 1st	55.00
Wheelsmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelsmen, to Oct. 1st	50.00
Wheelsmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

BARGES

Mates on barges shall receive not less than ten dollars ($10) per month more than seamen on the same vessel; and donkey men five dollars ($5) per month more than seamen.

Mates' wages on tow barges of the larger class (vessels which paid their mates $73.00 a month last year) shall be paid $73.00 per month for the entire season.

Able-bodied seamen on tow barges shall receive fifty-two dollars and fifty cents ($52.50) per month until October first, and sixty-five dollars ($65.00) per month from October 1st to the close of navigation.

The engineers on tow barges carrying towing machines shall receive $73.00.

The cooks on tow barges shall receive the same wages as the seamen on the same barges.

Ordinary seamen on barges $31.50 per month to Oct. 1st, and $40.00 per month from Oct. 1st to close of navigation.

GENERAL

Wages of Seamen, Firemen, Oilers and Water Tenders employed in fitting out shall be $2.00 per day while they are not boarded on vessel.

Wheelsmen-Lookoutsmen are men who stand a three-hour trick at the wheel and three-hours watch on deck each watch.

Wheelsmen are men who stand a trick at the wheel but will not watch.

Lookoutsmen are men who stand a watch on deck but cannot wheel.

Handymen, where carried, same wages as firemen.

The following resolution was adopted unanimously by the Lake Carriers' Association, and as it admits of no deviation the officers of our ships, in all departments, must govern themselves accordingly:

The experience of the ship owners, managers and licensed officers for the past years has demonstrated the necessity of what is referred to as the open shop principle, in order to give that control and direction of the ships which is required for the equal good of the owner, the employe of the ships and the dependent trade. And so it is resolved:

1. That the owners of ships on the Great Lakes do now declare that the open shop principle be adopted and adhered to on our ships.

2. That the Lake Carriers' Association stands for the foregoing principle.

3. That the matter be referred to the executive committee with full power to act and carry out this principle.

4. That it should be the aim of the committee in the means they shall adopt, to recognize a fair and equitable rate of wages, to insist on such regulations as shall promote the comfort, and well-being of the employes, shall put the discipline of the ship in the hands of the executive officers and tendering liberal appropriate wages and conditions, requiring in response appropriate, diligent and prompt service from the members of the crew.

5. And at this meeting, representing 91 per cent of the tonnage of the association, as a definite and specific support to the committee it is voted to adhere to and observe this action, referring also any and all special cases to the committee.

W. LIVINGSTONE,
President.

Bell Phone, Main 1950

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COMPARATIVE FREIGHT RATES—GRAIN PER BUSHEL, IRON ORE PER GROSS TON

Rate in cents per bushel	Equivalent in Iron Ore Per Gross Ton			
	Corn, flax and rye. 56 pounds per bushel, 40 bushels per gross ton	Wheat 60 pounds per bushel, 37 1-3 bushels per gross ton	Barley 48 pounds per bushel, 46 2-3 bushels per gross ton	Oats 32 pounds per bushel, 70 bushels per gross ton
¾	$ 30	$ 28	$0 35	$0 52½
⅞	35	32⅔	40⅚	61¼
1	40	37⅓	46⅔	70
1⅛	45	42	52½	78¾
1¼	50	46⅔	58⅓	87½
1⅜	55	51⅓	64⅙	96¼
1½	60	56	70	1 05
1⅝	65	60⅔	75⅚	1 13¾
1¾	70	65⅓	81⅔	1 22½
1⅞	75	70	87½	1 31¼
2	80	74⅔	93⅓	1 40
2⅛	85	79⅓	99⅙	1 48¾
2¼	90	84	1 05	1 57½
2⅜	95	88⅔	1 10⅚	1 66¼

2½	1 00	93⅓	1 16⅔	1 75
2⅝	1 05	98	1 22½	1 83¾
2¾	1 10	1 02⅔	1 28⅓	1 92½
2⅞	1 15	1 07⅓	1 34⅙	2 01¼
3	1 20	1 12	1 40	2 10
3¼	1 30	1 21⅓	1 51⅔	2 27½
3½	1 40	1 30⅔	1 63⅓	2 45
3¾	1 50	1 40	1 75	2 62½
4	1 60	1 49⅓	1 86⅔	2 80
4¼	1 70	1 58⅔	1 98⅓	2 97½
4½	1 80	1 68	2 10	3 15
4¾	1 90	1 77⅓	2 21⅔	3 32½
5	2 00	1 86⅔	2 33⅓	3 50
5¼	2 10	1 96	2 45	3 67½
5½	2 20	2 05⅓	2 56⅔	3 85
5¾	2 30	2 14⅔	2 68⅓	4 02½
6	2 40	2 24	2 80	4 20
6¼	2 50	2 33⅓	2 91⅔	4 37½
6½	2 60	2 42⅔	3 03⅓	4 55
6¾	2 70	2 52	3 15	4 72½
7	2 80	2 61⅓	3 26⅔	4 90
For each addit. ⅛c add	5c	4⅔c	5⅚c	8¾

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Grain Elevators of The Great Lakes

Data Furnished by Fred W. Green

NAME AND LOCATION	Storage Capacity
ALLOUEZ, WIS.	
Itasca	1,300,000
BUFFALO, N. Y.	
American Malting, Above Ohio St. Bridge	2,500,000
Connecting Terminal, Ship Canal	1,000,000
Dakota, Blackwell Canal	1,250,000
Electric, Above Ohio St. Bridge	2,000,000
Evans, Evans Slip	400,000
Exchange, Erie Basin	500,000
Export, Buffalo Ship Canal	1,000,000
Great Eastern, Buffalo Creek	2,500,000
Kellogg (New), Buffalo Creek	1,000,000
Marine, Creek and Hatch Slip	650,000
Monarch, Evans Slip	450,000
Mutual, Buffalo Ship Canal	3,000,000
Seaboard, Opposite Main St.	300,000
Superior, Buffalo Creek above Ohio St. Bridge	1,560,000
Union, Buffalo Creek	100,000
Wheeler, Buffalo Creek	~~750,000~~
CHICAGO, ILL. (See also South Chicago, Ill.)	
Armour "A" and "B," and Annex North Branch (Division St.)	3,300,000
Armour "C," South Branch (Morgan St.)	1,000,000
Atlantic, Ogden Canal	125,000
Central "A," Entrance to River	800,000
Keith, South Branch	2,000,000
Minnesota, North Branch (North Ave.)	300,000
Rock Island "A," South Branch	1,000,000
Rock Island "B," South Branch	800,000
Santa Fe, South Branch (27th St.)	1,000,000
Union, South Branch (16th St.)	1,200,000
Wabash, South Branch	1,500,000
CLEVELAND, OHIO	
Cleveland Milling, Above Superior St. Viaduct	150,000
Elevator "A," Cincinnati Slip	1,000,000
Sherwin-Williams, Above Central Viaduct	400,000
Union, Opposite Irish Town Car Dump	250,000
COLLINGWOOD, ONT.	
Collingwood Elevator, in Harbor	160,000

NAME AND LOCATION	Storage Capacity
DEPOT HARBOR, ONT.	
Grand Trunk	1,700,000
DETROIT, MICH.	
Detroit R. R. Elevator, Foot of Hastings St.	600,000
Michigan Central "A," Foot of 8th St.	500,000
Michigan Central "B," Foot of 12th St.	500,000
Union, Foot of 15½ St.	1,250,000
Commercial, Foot of Randolph	2,250,000
DULUTH, MINN.	
(See also Superior, Wis.)	
Capital	1,600,000
"B" and Annex "C"	2,000,000
"D" and Annex "G"	4,000,000
"E" and Annex "F"	2,750,000
"H"	1,250,000
Peavey	4,000,000
ERIE, PA.	
Erie & Western, Foot of Holland St.	1,000,000
FAIRPORT, OHIO	
Fairport Elevator, Grand River	1,000,000
FORT WILLIAM, ONT.	
Black & Muirhead, Ltd.	100,000
Consolidated, Three Miles from Harbor Entrance	1,700,000
Dwyer Elevator	100,000
Eastern "A," Three-fourths Mile from Kam. River	1,250,000
Fort William "F" on Kam. River	1,250,000
G. G. G.—"B," Adjoining Elevator "E" (C. P. R.)	500,000
Eastern "C," Annex to C. P. R.—"A"	1,250,000
C. P. R.—"D," Kam. and Mission Rivers	3,000,000
G. G. G.—"E," 500 Feet Above C. P. R.—"A" (C. P. R.)	2,000,000
Empire, Mouth of Kam. River	2,000,000
Ogelvies, on the Kam. River	1,250,000
Western, on the Kam. River	1,000,000
Grand Trunk, Mission River	3,250,000
Paterson "O" on Kam. River	100,000
GLADSTONE, MICH.	
Soo Line	450,000
GODERICH, ONT.	
Transit, in Harbor	1,000,000
Elevator "A," South Side of Harbor	200,000
Elevator "B" South Side of Harbor	600,000

NAME AND LOCATION	Storage Capacity
GREEN BAY, WIS.	
Cargill, Fox River	1,750,000
KINGSTON, ONT.	
Commercial, in Harbor	350,000
Forwarder's, First in Harbor	500,000
Montreal, in Harbor	800,000
MANITOWOC, WIS.	
Elevator "A"	1,000,000
Elevator "B"	2,000,000
MIDLAND, ONT.	
(See also Tiffin, Ont.)	
Midland, West Side of Harbor	1,200,000
Tiffin No. 2, Mouth of Wye River	2,250,000
MILWAUKEE, WIS.	
Rialto "A," Between C. & N. W. and Broadway Bridges	800,000
Rialto "B," Between C. & N. W. and Broadway Bridges	1,000,000
St. Paul "A," Elev. "A" Slip	1,000,000
St. Paul "B," Menominee River	700,000
St. Paul "E," Elevator "E" Slip	1,000,000
American Malting	
MONTREAL, QUEBEC	
Warehouse "A," on Canal	400,000
Elevator "B," on Canal and Annex on Canal	2,000,000
Elevator No. 1, Elgin Basin	1,000,000
OGDENSBURG, N. Y.	
Bill, Bell & Co., Oswegatchie River	90,000
Rutland Transit Co. (Under Construction)	
OSWEGO, N. Y.	
Northwestern, West Side of River	500,000
PORT ARTHUR, ONT.	
C. N. Ry. "A" and Annex, in Harbor	3,750,000
C. N. Ry. "B" and Annex, in Harbor	3,250,000
Davidson & Smith, Southwest of C. N. Ry. Coal Dock	750,000
Government, S. W. of C. N. Ry. Coal Dock	3,750,000
Horn's, in Harbor	750,000
Thunder Bay, S. W. of C. N. Ry. Coal Dock	1,700,000
PORT COLBORNE, ONT.	
Government Elevator, in Harbor	2,000,000
Maple Leaf Milling Co., Ltd.	1,500,000

NAME AND LOCATION	Storage Capacity
PORT HURON, MICH.	
Grand Trunk, St. Clair River	1,000,000
PORT McNICOLL, ONT.	
C. P. R., East Side of Harbor	4,000,000
PRESCOTT, ONT.	
Terminal, St. Lawrence River	1,000,000
SANDUSKY, OHIO	
B. & O., in Harbor	300,000
SOUTH CHICAGO, ILL.	
(See also Chicago, Ill.)	
Calumet "A," Slip No. 2, Calumet River	1,000,000
Calumet "B," Slip No. 2, Calumet River	1,000,000
Calumet "C," Slip No. 2, Calumet River	1,200,000
Calumet River Elevator, 96th St.	350,000
Irondale "A" and "B," Calumet River	1,000,000
Keystone, Calumet River	1,500,000
Merritt, Calumet River	
Peavey "A" and "B," Calumet River	2,250,000
Rialto "A," 104th St.	1,250,000
So. Chicago "C" and Annex, Calumet River	3,000,000
So. Chicago "D," Calumet River	1,500,000
SUPERIOR, WIS.	
(See also Duluth, Minn.)	
Belt Line, Lower Superior Harbor	2,250,000
Globe Nos. 1, 2, 3, Superior Harbor	5,000,000
Great Northern "S" and Annex G. N. Slip	6,840,000
Terminal "K," Old Town	500,000
Terminal "M" and "N," Old Town	2,000,000
TIFFIN, ONT.	
(See also Midland, Ont.)	
Aberdeen, in Harbor	1,000,000
TOLEDO, OHIO	
C. H. & D. Elevator	500,000
East Side Elevator, Maumee and L. S. & M. S.	1,500,000
National, Maumee River	1,250,000
WALKERVILLE, ONT.	
Hiram Walker & Sons, Ltd.	300,000

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Wire will catch your boat any time at night

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2. Berwind Fuel Co.
3. Carnegie Dock & Fuel Co., Dock No. 1.
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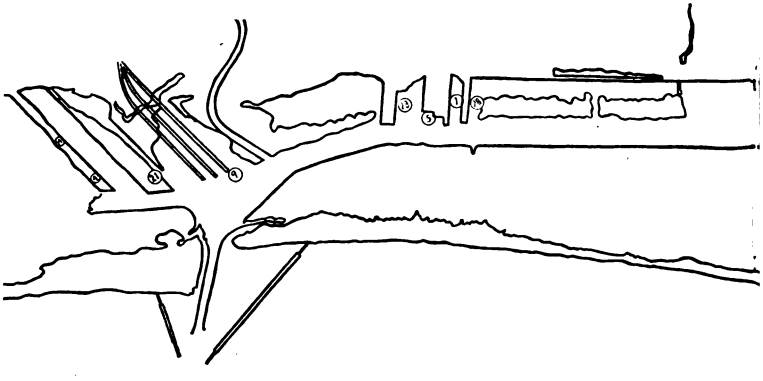
5. Daisy Flour Mills.
6. Globe Elevator.
7. Great Lakes Coal & Dock Co.
8. Great Northern, "Elevator."
9. Great Northern, "Ore docks."
10. Great Northern, "Rail dock."
11. Great Northern, "Warehouse."
12. Hanna Dock Co., M. A.
13. Island Creek Coal Dock Co., No. 2.
14. Itasca Elevator.
15. Lehigh Valley Coal Dock.
29. Morton Salt Co.
16. North Western Fuel Co., Dock No. 1.
17. North Western Fuel Co., Dock No. 2.
18. North Western Fuel Co., Dock No. 3.
19. Northern Coal & Dock Co., (Osborn).
20. Philadelphia & Reading Coal Dock.
21. Pittsburgh Coal Co., Dock No. 5.
22. Reiss Coal Co., C Dock No. 3.
23. Reiss Coal Co., C Dock No. 4.
24. Soo Line Ore Docks.
25. Sunday Creek Coal Co.
26. Superior Manufacturing Co.
27. Superior Shipbuilding Co.
28. Terminal Elevators K & L.

DULUTH, MINN.

1. Alger-Smith & Co., Lumber dock.
2. Alger-Smith & Co., Lumber dock.
3. Berwind Fuel Co.
4. Boston Coal Dock
34. Canadian Northern
5. Capital Elevator.
6. Carnegie Coal Doc
7. Clark & Jackson,
8. Clarkson Coal &
9. Consolidated Elevat
10. Consolidated Eleva
11. Cutler & Co., D. G
12. C. M. St. P. & O.
13. Duluth, Missabe dock."
14. Duluth, Missabe & dock."
15. Duluth, Missabe docks."
16. Island Creek Coal
32. Kelly Island Lime
17. Marshall-Wells Har
33. Mullery & McDonal
18. North Western Fue
19. Northern Pacific, "
20. Northern Pacific, "
21. Northern Pacific, F
22. Northern Pacific, "
23. Northern Pacific, "
24. Northern Pacific, "
25. Peavey Elevator.
26. Pittsburgh Coal Do
27. Pittsburgh Coal Do
28. Red Cliff Lumber C
29. Soo Line, "Freight
30. Virginia & Rainey
31. Zenith Furnace Co.



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No. 2.
umber dock.
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rs, "H. E. & F."

reight Sheds.
: Northern, "Coal

Northern, "Lumber

: Northern, "Ore

ock No. 1.
o.
ware Co.
Forwarding Co.
Co.
reight shed No. 2."
reight shed No. 4."
eight shed No. 5."
reight shed No. 6."
umber dock."
ail dock."

: No. 1.
: No. 7.
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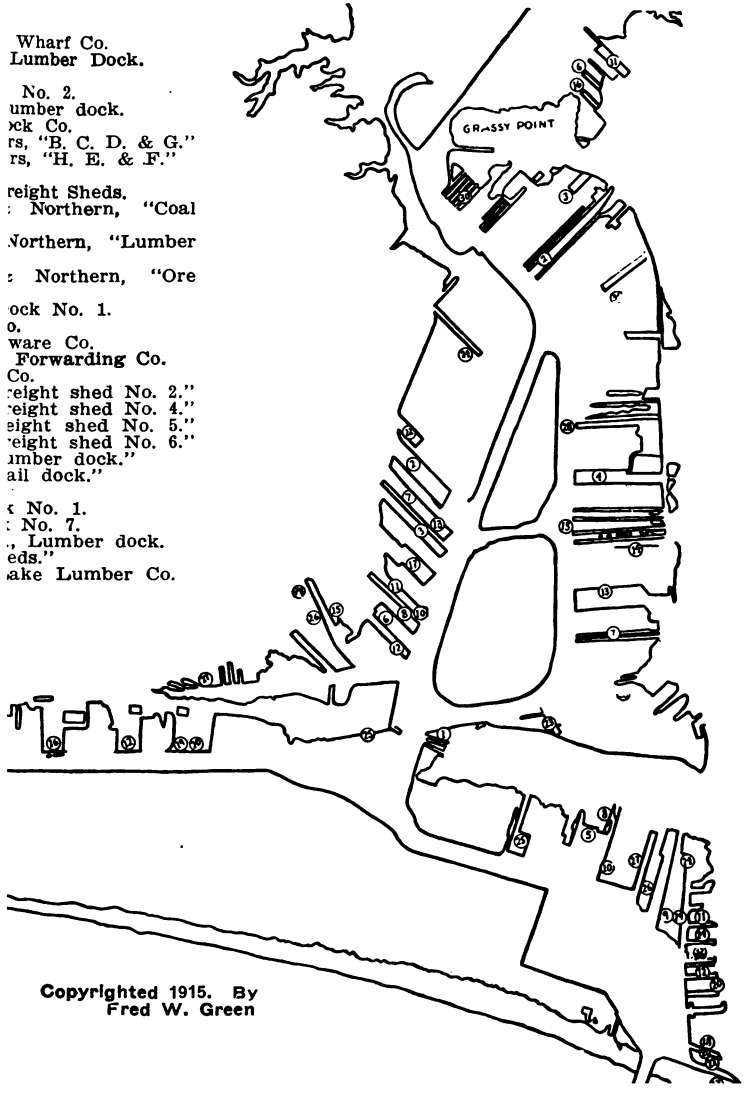

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24 hour-a-day service
A Service to swear by instead of at.

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then you'll thank us.

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John E. Miller & Son J. E. Fellows, Manager

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List of vessels arranged according to name of Captain.

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A. D. (Bge.)—Modeste Leboeuf.
Adams, Cuyler—W. Stevenson.
Adams, Thomas—Thos. Bennett.
Adriatic—Frank Randall.
Advance—J. V. Norris.
Agnes W.—A. C. Wanvig.
Agassiz, R. L.—George B. Brock.
Agawa—J. A. Brown.
Agnew, Wm. C.—Chas. B. Galton.
Alabama—W. E. Franklin.
Alaska—Joseph E. Mahon.
Alberta—Frank J. Davis.
Aletha—Jas. Crawford.
Alexandria—Wm. Bloomfield.
Algonquin—Fred R. Johnston.
Allegheny—H. Cronkite.
Aloha (Bge.)—W. J. Hayes.
Alpena—C. L. Atkinson.
Amazon—J. C. Hays.
America—A. Mouck.
America—E. C. Smith.
America—C. J. Hinckley.
Americana—Alfred Johnson.
Ames, Ward—J. S. Neal.
Andaste—W. H. Cousins.
Anderson, Alex. (Sch.)—R. Burns.
Andrews, Matthew—Jos. Lampoh.
Angeline—F. D. Perew.
Ann Arbor 3—Chas. E. Robertson.
Ann Arbor 4—Alex L. Larson.
Ann Arbor 5—B. F. Tulledge.
Arcturus—J. L. Weeks.
Arenac (Bge.)—R. D. Taylor.
Argo—W. U. Randall.
Ariel—W. H. Carr.
Arizona—C. C. Fowler.
Arizona—T. Lindale.
Arrow, W.—Harry Fyrie.
Arthur (Bge.)—Knute Pederson.
Arthur (Sch.)—J. H. Peacock.
Ashland (Bge.)—J. P. Johnson.
Ashley, J. S.—M. G. McIntosh.
Ashtabula—B. T. Hagenson.
Assiniboia—James McCannel.
Athabasca—John B. Currie.
Athens (Bge.)—Chas. Ryckman.
Atikokan—W. J. Brown.
Augustus (Bge.)—T. L. Leduc.
Augustus, A. A.—E. Detlefs.
Aurora (Bge.)—Louis Fox.
Averell—John Smith.

Bacon, Melvin S. (Sch.)—Wm. McQuinn.
Baker, Geo. F.—George Bell.
Ball, Frank C.—E. Warwick.
Barlum, John J.—A. J. Mahon.
Barlum, John J. (Bge.)—Alex. Sharrow.
Barlum, Thomas—R. A. Cain.
Barnum—Peter Green.
Barth, L. L.—John Hayes.
Bartow, J. H.—A. E. White.
Beard, James—Geo. Waugh.
Beattie, Chas. S.—H. McKenzie.
Beaverton—O. Patterson.

Bell, Isaac L.—J. H. Denner.
Belleville—Jos. Rinfret.
Bennington—W. S. Shay.
Berry, B. F.—C. C. Balfour.
Berwind, Harry A.—Wm. Landon.
Bessemer, Sir Henry—A. Montague.
Bethlehem—Archie A. McMaugh.
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Binghamton—R. B. Wilkinson.
Bixby, W. K.—S. B. Worden.
Black, Geo. A.—F. D. Selee.
Block, Joseph—A. A. Clarke.
Bloom, Nelson (Bge.)—H. N. Jex.
Boland, John J.—John A. Montgomery.
Bon Ami—Wm. Betts.
Booth, E. L.—J. H. Madden.
Bope, H. P.—J. H. Lowes.
Boston—S. R. Jones.
Bottsford, R. (Bge.)—A. D. Sheldon.
Boucherville—A. Laviolette.
Boyce, Geo. J. (Sch.)—N. J. Normen.
Bradley, M. A.—H. Winkler.
Brainard, Katie (Bge.)—George Horne.
Bransford—Wm. Lohr.
Brazil—A. McCloud.
Briton—Chester Massey.
Brockville—D. B. Christie.
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Brown, J. J. H.—S. A. Rand.
Brown, W. L.—W. W. Eger.
Brownell, G. F.—C. W. Watson.
Bryn Mawr (Bge.)—Geo. P. Kendall.
Buckley, Edward—Fred Gunderson.
Buell, F. R.—Hugh O'Hagan.
Buffalo—John Kennedy.
Buffington, E. J.—Richard Jollie.
Bunsen, R. W. E.—S. E. Meeker.
Burke, D. J. (Tug)—B. Nicholas.
Burlington—Geo. Kinch.
Burma (Bge.) W. Leduc.
Butler, Jos. G., Jr.—James Murphy.
Butters, Marshall F.—C. E. McClure.
Byers, A. M.—A. Craigie.

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Calcite—J. W. Parsons.
Caldera—C. S. Ellis.
Calgary—J. H. Solery.
Calumet—E. D. Ballentine.
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Canisteo—Geo. Snook.
Canobie—L. Pregent.
Canopus—A. R. Beall.
Caribou—A. A. Batten.
Carleton—E. Groulx.
Carolina—D. J. McGarity.
Carrington—H. M. Saveland.
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Case, J. I. (Bge.)—Theo. Birkland.
Caspian—John J. Jarrell.
Castalia—W. L. Girardin.
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Champlain—F. A. Dupuis.
Chattanooga (Sch.)—M. P. Tufveson.
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Chicago—Henry Murphy.
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Chinock—Paul Gagne.
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Chippewa—Wm. McCarty.
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Christopher—W. E. Wright.
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City of Buffalo—W. H. Smith.
City of Cheboygan—A. R. Graves.
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City of St. Ignace—John Hyatt.
City of St. Joseph—Oscar Bjork.
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Clinton—Mike Hetrick.
Codorus—F. Pardee.
Cole, Thomas F.—M. K. Chamberlain.
Collinge—Frank Peterson.
Collingwood—F. Scott.
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Commodore (Bge.)—Frank Desot.
Compton—B. Bowen.
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Congercoal—Chas. Wakely.
Constitution (Bge.)—P. A. Mallette.
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Coralia—David Bouille.
Corey, Wm. E.—H. G. Harbottle.
Corliss, Geo. (Bge.)—H. M. White.
Cornelius, A. E.—James G. Herbert.
Cornell—A. C. Smith.
Corning, Ida (Bge.)—Alfred Keller.
Corrigan—J. R. Hesson.
Corsica—Severn Nelson.
Cort, Henry—Geo. Lane.
Corvus—A. W. Holmes.
Craig, Geo. L.—D. J. Duncanson.
Crawford, (Tug)—W. M. Tyson.
Crawford, G. G.—W. C. Iler.
Crawford, W. D.—B. M. Landfair.

Crerar, John—Chas. Bennett.
Crescent City—H. Culp.
Crete—Wm. A. Williams.
Crosby, E. G.—F. Richardson.
Crowe, G. R.—J. H. Hudson.
Curry, S. S.—W. R. Neal.
Cutler, D. G. (Bge.)—Carl Jorgenson.
Cygnus—Robert Recor.

Dahlke, H.—Frank Butler.
Dalhousie City—J. W. Maddich.
Dalton, H. G.—Fred C. Hector.
Davidson, A. D.—Chas. W. Babb.
Davidson, James E.—W. C. Jones.
Davidson, Louis R.—Hugh McCann.
Davock, Wm. B.—J. M. Duddleson.
Dayton (Bge.)—R. Briggs.
Delaware—F. Blum.
Delta (Bge.)—John Bates.
Derbyshire, Senator—A. Patenaude.
Detroit—R. Aiken and F. A. Huntoon.
Dickson, Wm. B.—W. H. Moody.
Dimmick, J. K.—Wm. Jagenow.
Dinkey, Alva C.—W. J. Hunt.
Dobbins, D. P. (Bge.)—T. McEwan.
Donaldson, J. A.—Thomas Beggs.
Donaldson, J. P.—Chas. Rattray.
Donner, W. H.—O. J. Soleau.
Dormer, Grace—Eugene Goodwin.
Drummond, Thos. J.—A. McIntyre.
Duluth—H. S. Dennis.
Dunham, James S—Frank C. Pratt.
Dunmore (Bge.)—I. Deoust.
Dwyer, W. H.—J. P. McLeod.

Eads, James B.—J. C. Bell.
Earling, E. J.—D. C. Sullivan.
Eastern States—Dan McKay.
Eastland—H. Pederson.
Easton—D. N. Laroche.
Easton—Gustave Ege.
Eddy Selwyn—John Larson.
Edenborn, Wm.—F. J. Cullen.
Edmonton—H. Majtland.
Edwards, J. R. (Bge.)—Roy Tousley.
Elba—C. H. Woodford.
Ellwood, Sir Isaac—G. H. Bowen.
Elphicke, Mary C.—J. T. Autterson.
Elva—J. H. Stewart.
Empire City—C. S. Boyce.
England, R. W.—E. W. May.
Ericsson, John—P. H. Dunn.
Ewen, F. D. (Bge.)—Aime Monette.

Fairbairn, Sir Wm.—Allen Collins.
Fairmont—Wm. Liddell.
Farrell, James A.—F. A. Bailey.
Fassett, T. S.—Thos. Quinn.
Filbert, Wm. J.—A. J. Talbot.
Filer, D. L. (Bge.)—John Matteson.
Fillmore, C. J. (Bge.)—J. Haggerty.
Fisher, E. L.—Geo. L. Cottrell.
Fitch, W. F.—R. D. Peltier.
Fitzgerald, Wm. E.—A. C. Callam.
Flogg, G. A.—A. H. Hartman.
Follette, James W.—Chas. D. Bennett.
Ford, J. C.—Norman Maguire.
Ford River (Sch.)—Chauncey Daryaw.
Foster, I. N.—Eli Olsen.
Franz, W. C.—W. C. Gordan.

French, G. Watson—J. M. Brines.
Frick, Henry C.—W. H. Kilby.
Fritz, John (Bge.)—R. Thompson.
Frontenac—H. A. Murphy.
Fryer, Robt. L. (Bge.)—Emil Christin.
Fulton, Robert—George Reece.

Garden City—J. Blanchard.
Garretson, Gen.—E. R. Morton.
Gary, E. H.—George Holdridge.
Gates, John W.—J. Noble.
Gaun, Thomas—Julius Lawrence.
Genoa (Bge.)—C. J. Garlock.
Georger, F. A. (Sch.)—Samuel Leboeuf.
Georgia—M. D. Mackey.
German—H. W. McEwen.
Germanic—F. G. Moles.
Gettysburg—Capt. Gonyaw.
Gill, Alice M.—J. M. Peterson.
Gladys, H. (Bge.)—Leonel Leduc.
Glenfinnan—Walter Linton.
Glenfoyle—Wm. Taylor.
Glenlivet—F. Barloe.
Glenmavis—James Dix.
Glenmount—H. Peters.
Glenyon—A. Hudson.
Glenshee—Wm. Levifue.
Godfrey, J.—A. C. Louden.
Gogebic—C. L. McDougall.
Golden Age (Bge.)—G. E. Nelson.
Gould, Jay—C. T. Clarke.
Goulder, Harvey D.—H. Davidson.
Graham, George A.—P. McIntyre.
Grammer, G. J.—Thomas Burns.
Grand Haven—Thomas Trail.
Green, C. H.—J. F. Sheehan.
Greene, M. T.—L. F. LaFey.
Griffin—Wilson MacGregor.
Groh, Mary—Edward Ohlemacher.
Gunnell, E.—Edwin Curran.

Hagarty, J. H. G.—Samuel Hill.
Hall, Henry B.—D. A. Kiah.
Hall, Stephen C.—Grant Horne.
Hamilton (Bge.)—A. Hebert.
Hamonic—A. L. Campbell.
Hanna, Howard M., Jr.—John Babbitt.
Hanna, D. R.—S. B. Massey.
Hanna, L. C.—George McGarry.
Hart, Eugene C.—Jno. G. McCarty.
Hart, F. W.—W. S. Ritchie.
Hartnell, George E. (Bge.)—W. J. Pizer.
Hartwell, Fred G.—Wm. Maltby.
Hausler, M. G.—Walter Campbell.
Harvard—C. A. Weitzman.
Harvester, The—Wm. Smith.
Harvey—M. A. Larrabee.
Haskell—E. A. Dubrule.
Hawgood, H. B.—A. C. May.
Hazard, Wm. A.—Jas. Cottrell.
Hebard, Chas. S.—C. H. Francke.
Heffelfinger, F. T.—T. N. Conlin.
Heiden, Charles—Daniel MacFarlane.
Helen, C.—Wm. C. Zeim.
Helvetia (Bge.)—Olaf Steffensen.
Hemlock—L. J. Lavely.
Hennepin—Jos. A. Brownell.
Hettler, Herman H.—R. T. Evans.
Hill, J. J.—A. C. Hansen.
Hilton—W. Hamilton.
Hinckley—A. R. Hinckley.
Hines, L. Edward—K. McKenzie.
Holland, N. C. (Bge.)—J. W. Hall.
Holley, Alexander (Bge.)—Chas. L. Wilson.
Holmes, E. F.—C. D. Brown.
Hoover & Mason—W. C. Brown.
Horn, Chas.—Cris Edwardsen.

Houghton, Douglas—J. T. Gemmel.
House, F. E.—J. F. Parke.
Howe, Geo. C.—Frank P. Russell.
Hoyt, James H.—G. A. MacAulay.
Hubbard, C. Russell—H. S. Lyons.
Huron—W. D. McClinton.
Huron—W. H. Yates.
Huron—M. Bansette & O. Lalonde.
Huron—A. T. May.
Huron City—J. E. Reynolds.
Huronic—A. M. Wright.
Hutchinson, Chas. L.—Frank P. Powell.
Hutchinson, J. T.—J. H. Smith.

Illinois—J. Stufflebeam.
Imperial—H. C. Mimms.
Imperoyal—N. Scott.
India—C. Beaupre.
Indiana—J. A. Wilson.
Indus—W. B. McDonald.
Inland—Robt. Laing.
Interlaken (Bge.)—Carl Johnson.
Iocoma—G. T. Cross.
Ionic—O. M. Wing.
Ireland, Robert L.—J. W. Ehrhart.
Iron Cliff (Bge.)—Alex Sharrow.
Iroquois—D. A. Kennedy.
Isabella H. (Bge.)—A. C. Nelson.
Iselin, Adrian—D. Hourigan.
Ishpeming—C. A. Anderson.
Islander—Frank McCarty.

Jackson, G. K. (Bge.)—John Joyce.
Jenkins, Chas. O.—F. B. Chilson.
Jenks, J. M.—W. A. Ashley.
Jenney, W. L. (Bge.)—Donald Graham.
Jessie—Hiram Welcher.
Jex, H. N.—T. Emig.
Jones, B. F.—R. W. England.
Jones, F. P.—H. M. Russell.
Judd, E. T. (Bge.)—R. W. Jex.
Juniata—E. McKenzie.
Jupiter—J. N. Morrison.

Kalkaska—Frank Elliott.
Kaministiquia—E. L. Stephen.
Kansas—J. Thorpe.
Katie H. (Bge.)—Jos. Poirier.
Kearsarge—Wm. Baxter.
Keefe, J. S.—Dan Barry.
Keewatin—Malcolm McPhee.
Kelley Island—E. B. Senor.
Kelley, Mórman (Bge.)—W. Hannell.
Kendall, Harvey J.—H. J. Kendall.
Kennedy, Hugh—Harvey Stewart.
Kensington—David Elliott.
Kerr, D. G.—T. A. McDougall.
Ketcham, J. B. II—A. Foote.
Keybell—J. Murray.
Keynor—James Martin.
Keyport—Jno. Mullin.
Keyvive—Geo. Bunting.
Keywest—A. Barrett.
King, George—W. E. Smith.
King, W. L.—Fred Reid.
Kinmount—J. Wood.
Kirby, Frank E.—Fred H. Pauls.
Kirby, S. R.—Oliver Pitts.
Knapp, F. M. (Bge.)—John Booth.
Kopp, Jacob T.—James Heffernan.
Kotcher, Chas. W.—J. B. Rinn.
Krupp, Alfred (Bge.)—P. Gustofson.

LaBelle—G. D. Tulian.
Lackawanna—James Healy.

Lakeland—Alex McCowan.
Lake Michigan—T. Heffernan.
Lakeport—R. H. Knapp.
Lakewood—J. C. McLean.
Lambert, John—Emmett Quackenbush.
Langell, Simon—Guy Gue.
Langell Boys—Bert Payea.
Landsdowne—H. Oldenburg & Jno. Jackson.
LaSalle—G. A. Montgomery.
Laughlin, James—M. G. Allen.
Laurentian—Jos. Boucher.
Lehigh—Murray Bostwick.
Leopold, N. F.—Joseph Matthews.
Lewiston—O. Nelson.
Linden—Wm. J. Cowles.
Linn, Wm. R.—J. N. Rolfson.
Little, C. H.—W. J. Ames.
Livingston—H. Oertling, Jr.
Livingston, Wm.—Chas. Tousley.
Lozen, J. B. (Bge.)—J. F. Lozen.
Lupus—E. A. Evanson.
Luzon—W. W. Wilkins.
Lynch, Thomas—J. Nahrstedt.
Lyon Chas.—Wm. Henry.

McCullough, J. G.—Robert B. Wilkinson.
McDougall, Alex—H. D. McLeod.
McGregor, Mary A.—G. F. Forrest.
McIntosh, H. P.—L. S. Tilden.
McKee, J. A.—H. C. Wingrove.
McKerchey, John M.—Wm. McGuire.
McKinney, Price—E. C. Van Patten.
McVea, Charles—N. W. Napier.

Mack, Wm. S.—Wm. Ferguson.
MacTier, A. D.—S. V. Anderson.
Magna (Bge.)—A. S. Hand.
Mahoning—A. McKenzie.
Maia (Bge.)—Arnold Nordahl.
Maida (Bge.)—Wm. McDonald.
Maitland, A. (Bge.)—S. Brines.
Majestic—J. D. Montgomery.
Major—U. Carson.
Malietoa—H. T. Kelley.
Manchester, G.—Everett Zwemer.
Manda (Bge.)—Charles Gordon.
Manila (Bge.)—Geo. J. Maloney.
Manistique—W. C. Sparling.
Manitoba—John McIntyre.
Manitou—W. F. Finucan.
Manitou—N. J. McCoy.
Manola—E. F. Barnard.
Marcia (Bge.)—C. G. Benson.
Maricopa—G. M. Ackley.
Marion—F. O. Johnson.
Mariposa—Geo. Ames.
Maritana—Chas. Thrasher.
Marquette & Bessemer No. 1—M. M. Rowan.
Marquette & Bessemer No. 2—John Van Buskirk.
Marsala (Bge.)—James N. Ames.
Marshall, A. M.—T. B. Greenway.
Marshall, Samuel—W. A. Tulloch.
Martha (Bge.)—George Young.
Maruba—W. C. Reid.
Mary—John Pearson.
Maryland—Timothy Kelley.
Masaba—J. A. Smith.
Mataafa—A. R. Thomson.
Mather, Samuel (Small)—J. A. Smith.
Mather, Samuel—L. W. Stone.
Mather, Wm. G.—F. A. West.
Matthews, Jennie—Jos. Mills.
Matthews, W. D.—Wm. Cunningham.

Mauch Chunk—C. S. Furey.
Maunaloa—Geo. Burt.
Maywood—W. E. Hill.
Meacham, D. B.—B. J. Gallagher.
Meaford—W. A. Richmond.
Mecosta—W. E. Moore.
Melrose (Bge.)—L. Benoit.
Mercur, Fred—Sidney LeBeau.
Merida—H. L. Jones.
Michigan—T. E. Murray.
Michipicotin—E. Raber.
Middlesex (Sch.)—Henry Brock.
Milinokett—W. G. Rogers.
Miller, Leonard B.—Wm. Hagan.
Miller, P. P.—Frank Weinheimer.
Mills, David W.—Dan Warwick.
Mills, D. O.—James Jackson.
Mills, Robert—J. S. Shackett.
Milwaukee—C. A. Lyman.
Minch, Anna C.—J. W. Kelley.
Minch, Phillip—H. W. Stewart.
Minch, Sophia (Bge.)—Thos. McEwen.
Mingoe (Bge.)—Peter Keischgens.
Minneapolis—R. C. Patterson.
Minnesota—G. Johnson.
Missouri—W. A. Bright.
Mitchell, Forster W. (Sch.)—Arthur Lake.
Mohegan—James Cunningham.
Moll, C. F.—William Burns.
Montreal—F. X. La France.
Moore, W. K. (Bge.)—J. Thody.
Morden, R. Grant—N. Campbell.
Morgan, J. P.—John Burns.
Morgan, J. P., Jr.—C. Gegenheimer.
Morrell, D. J.—P. L. Millen.
Morrow, Joe S.—Geo. W. Hayward.
Morse, S. F. B.—U. P. McElroy.
Morse, J. C.—A. H. Reed.
Mullen, Martin—Jas. F. Goodwin.
Muncy—F. Nelson.
Munro, J. C.—Alex Johnston.
Murphy, Simon J.—A. W. Burrows.

Nasmyth, James (Bge.)—Wm. H. Dick.
Neebing—John Ewart.
Neff, Chas. F.—John A. Doak.
Neff, Signey O.—John Messner.
Neilson, James B.—F. W. Light.
Neptune—Kenneth McRae.
Nessen, N. J.—John Eble.
New Island Wanderer—W. C. Hudson.
Niagara—Patrick Williamson.
Niko—Ralph Meyers.
Normandie—Ralph Pringle.
Normania—C. W. Willett.
Noronic—R. D. Foote.
Norris, Alice B. (Bge.)—J. O. Roberson.
Northern King—W. H. Stevenson.
Northern Light—Peter Hay.
Northern Queen—George B. Crawford.
Northern Wave—Neil Anderson.
North American—Geo. M. Cummings.
North Lake—Peter Thompson.
Northmount—J. Sutherland.
North Sea—E. C. Leath.
North Star—E. B. Blair.
North Wind—Thomas Stevenson.
Norton, D. Z.—Richard Call.
Norwalk—Frank Goodrow.
Nye, Harold B.—C. L. Seelye.

Oades, John—H. M. Boyce.
Oak Leaf (Bge.)—Ernest Bohn.

Octorara—J. Martin.
Odanah—A. M. Jenkyn.
Ogdenburg—W. S. McQueen.
Ogemaw—W. E. Pierce.
Oglebay, E. W.—Chas. A. Mohr.
Ohl, E. N.—A. A. Morrison.
Olcott—J. C. Fox.
Olcott, W. J.—A. R. Robinson.
Omega—M. W. Humphrey.
137 (Bge.)—Ivar Larson.
Onoko—Wm. R. Dunn.
Ontario—J. Carney.
Ontario—W. A. DeLand.
Orr, Arthur—John Simons.
Ort George N.—Herman Jaenke.
Orton, M. E.—H. McAuley.
Osborn, Chas. S. (Tug)—Walter Pringle.
Osborn, A. W.—W. F. Gardner.
Osborn, Frank C.—John E. MacIntosh.
Osler, E. B.—C. E. Robinson.
Ossifrage—T. J. Stockwell.
Owego—W. M. Cottrell.
Owen, G. B. (Bge.)—J. H. Trudo.
Owen, John—Otto Gentz.

Pahlow, Louis—J. F. Higgie.
Paine, Wm. A.—U. S. Cody.
Paipoonge—J. N. Foote.
Paliki—R. G. Bassett.
Palmer, Wm. P.—A. P. Chambers.
Panay—C. H. Wilson, Jr.
Parent, S. N.—Frank H. Johnson.
Parks, O. E.—L. A. Ellis.
Pathfinder—P. A. Peterson.
Pawnee—James Cassin.
Peavey, Frank H.—W. Chamberlain.
Pellatt, H. M.—Wm. Kelley.
Penobscott—Wm. Stevenson.
Pentland—A. R. Dickson.
Pere Marquette—Esten Bahle.
Pere Marquette 3—H. L. Hoxie.
Pere Marquette 4—D. Magnes.
Pere Marquette 5—H. C. McCanly.
Pere Marquette 6—John Smith.
Pere Marquette 7—W. H. Van Dyke.
Pere Marquette 8—Michael Martin.
Pere Marquette 17—W. H. LaFleur.
Pere Marquette 18—J. C. Ackerman.
Pere Marquette 19—J. G. Crawford.
Pere Marquette 20—Neil Mac Isaac.
Perkins, Geo. W.—W. S. Hoag.
Perseus—James B. Lyons.
Petoskey—W. J. Petroskey.
Phenix—Henry Russell.
Philbin, D. M.—A. R. Morse.
Philippe, Louis—A. Mandeville.
Phipps, Henry—R. F. Humble.
Plankinton, John—W. J. Mackin.
Poe, General O. M.—Geo. McCallum.
Pollack, W. G.—George Swails.
Polynesia—A. E. McGregor.
Pontiac—W. T. Mooney.
Pope, E. C.—R. M. Leonard.
Port Colborne—W. Steenes.
Port Dalhousie—J. Napier.
Powell, L. G.—Thos. Fowler.
Prentice, J. H.—H. Brown.
Presque Isle—J. A. Stewart.
Princeton—Geo. Randolph.
Purcer—D. Kennedy.
Puritan—J. M. Crawford.
Put-In-Bay—A. J. Fox.

Quebec—L. R. Demers.
Quebec (Bge.)—Wm. Lalonde.
Queen City—E. L. Sawyer.

Racine—J. Chambers.
Ramona—E. M. Charlebois.
Ranney, Rufus P.—C. R. Baker.
Rapids Prince—Geo. Batten.
Rapids Queen—J. P. Stephenson.
Ream, Norman B.—C. J. Grant.
Recor, E. P.—O. E. Meyers.
Redfern, C. E. (Bge.)—Eli Jacques.
Redington, Nellie (Bge.)—John Thurston.
Reed, J. H.—Nelson Brown.
Rees, W. D.—L. J. Francis.
Reiss, John P.—Jas. Donner.
Reiss, Peter—C. P. Hahn.
Rensselaer—J. A. Ferguson.
Republic—H. Wendorf.
Reserve—M. Lightbody.
Rhodes, J. W.—F. N. Watts.
Rhodes, R. R.—W. H. Ransom.
Rhodes, W. C.—Walter Robinson.
Richardson, G. A.—J. C. Hearney.
Robbins, F. L.—D. M. Post.
Robbins, S. H.—John Milne.
Roberts,Percival, Jr.—S. C. Allen.
Roberval—P. Eligh.
Robinson, Lucius W.—Wm. A. Russell.
Rochester—Edw. E. Taylor.
Rochester—D. Gillies.
Rockefeller, Frank—Daniel Murphy.
Roebling, John A. (Bge.)—W. F. Cottrell.
Rogers, H. H.—F. Rice.
Rogers, W. A.—J. L. McIntosh.
Rolph, John—Arthur Cousins.
Roman—Wm. Milliken.
Roosevelt, Theodore—D. MacLean.
Rosemount—Geo. Graham.
Roumania—Carl Carlson.
Rugee, John—John J. Powers.
Runnels, H. E.—Sam Christopher.
Rutland—Fred Lovesless.

St. Clair—Geo. Trimble.
St. Irenee—Wilfrid Gagne.
St. Joseph—James Birmingham.
St. Lawrence—John Bertrand.
St. Paul—Iver Rolseng.
Sachem—Geo. H. Ferguson.
Sagamore (Bge.)—John Ohman.
Sagenuay—Jos. Simard.
Sands, Isabella (Bge.)—M. McDonald.
Santiago (Bge.)—A. Mills.
Saranac—Henry Durker.
Saunders, E. N.—Samuel Sexsmith.
Saunders, W. B. (Tug)—James McKinley.
Sawyer, Philetus—S. Anderson.
Sawyer, W. H.—W. Canartney.
Saxon—H. J. Clegg.
Saxona—W. S. Carloss.
Schiller, Wm. B.—J. La Franboise.
Schleisinger, Ferd—E. H. Brownell.
Schoolcraft—B. McCaffrey.
Schuylkill—J. McDonald.
Scranton—W. W. Shorkey.
Selkirk (Bge.)—C. Leboeuf, Sr.
Senator—Charles W. Ernest.
Seneca—J. D. Greene.
Shaughnessy, Sir Thomas—N. B. Roach.
Shaw, Howard L.—G. H. Banker.

Shaw, Q. A.—M. M. Stewart.
Sheadle, J. H.—S. A. Lyons.
Shenango—J. F. Jones.
Sherman, W. A. (Sch.)—Geo. Abbott.
Sherwin, John—P. M. Cartwright.
Sicken, M.—John Kuhn.
Siemens, Sir Wm.—T. F. Zealand.
Sierra—G. Warwick.
Simla—C. Coons.
Sinaloa—H. Stevenson.
Sindbad—J. C. McCarty.
Sirius—Andrew Cowie.
Smeaton, John (Bge.)—J. R. Parker.
Smith, Edward—C. D. Miller.
Snyder, Wm. P.—F. H. Ott.
Snyder, Wm. P., Jr.—T. H. Sanders.
Sonoma—J. MacDonald.
South American—C. M. Haight.
Spalding, Jessie—L. A. Garn.
Spokane—A. W. Henry.
Squire, F. B.—George Atkinson.
Stackhouse, Powell—Wm. Megarvey.
Stanstead—D. McLachlan.
Stanton, John—C. A. Benham.
State of New York—W. S. Kenyon.
Steelton—W. J. Kirkwood.
Steinbrenner, H.—D. M. Crooker.
Stephenson, George—A. C. Moser.
Stephenson, I. Watson—L. H. Strahan.
Stephenson, S. M.—James Sanford.
Stewart, Albert E.—James McCarthy.
Stewart, A. (Bge.)—Fred Chamberlain.
Stone, Amasa—William A. Reed.
Stormount—Jas. Reoch.
Sullivan, J. J.—Wm. P. Benham.
Sultana—R. J. Reid.
Superior—F. D. Osborne.
Superior City—W. E. Warner.
Susquehanna—J. Donahue.

Tadousac—Jos Dugal.
Taurus—D. B. Elsey.
Taylor, J. Frater—R. H. Boyle.
Teutonia (Bge.)—Harry Lawrence.
Thomas, Sidney G. (Bge.)—John Brown.
Thompson, A. W.—R. Neville.
Thompson, A. W. (Bge.)—F. C. Hart.
Thousand Islander—C. H. Kendall.
Three Rivers—A. Mondor.
Tilden, S. J. (Bge.)—Ole Steffensen.
Tionesta—J. Dougherty.
Toiler—T. McMann.
Tokio (Bge.)—W. U. Wood.
Toltec—Geo. J. Sauer.
Tomlinson, G. A.—James A. Madigan.
Topeka—S. Brownell.
Tourist—E. J. Dodge.
Townsend, E. Y.—Ed. Sullivan.
Transfer—Geo. Honner & Wm. Norvall.
Transport—Jos. Sharon.
Trimble, Richard—F. J. Crowley.
Troy—T. Slattery.
Truesdale, W. H.—Fred Goodrow.
Turner, J. J.—Wm. Langell.
Tuscarora—Wm. Williams.

Tuxbury, A. C. (Bge.)—Chas. Fournier.
Tyrone (Bge.)—F. E. Johnson.

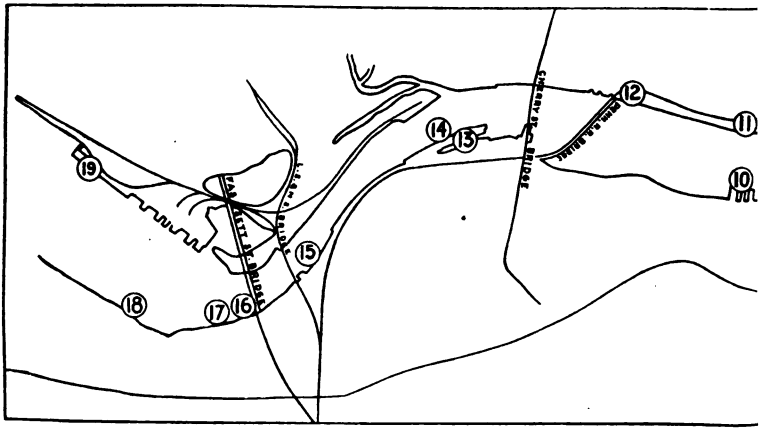
Uhrig, Edward A.—M. Anderson.
Umbria—D. Elliott.
Ungava (Sch.)—C. Sauve.
Underwood, F. D.—Charles D. Ross.
United States—Oscar E. Parks.
Upson, Andrew S.—James Connolly.
Upson, J. E.—W. W. Dawley.
Utica—J. Fisher.
Utley, E. H.—Edward Fitch.

Van Hise, Chas. R.—W. E. Stover.
Venus—S. K. Emerson.
Verona—Elmer Trim.
Victory—S. W. Matson.
Viking—Martin Peterson.
Virginia—E. E. Redner.
Vulcan—M. A. Budd.

Wainwright—D. A. Kendall.
Wallace, E. L.—Tom Simmons.
Wallace, Jas. C.—C. C. Stewart.
Wallace, Robt.—J. A. Connelly.
Walters, Thos.—Ev. Ennes.
Walsh, Jas. P.—C. H. Heaton.
Warner, R. S.—George Levis.
Warren, Homer—Fred Wood.
Watson, C. W.—Chas. Plotter.
Watt, James—C. M. Konkey.
Warrirer, S. D. (Bge.)—W. Jerome.
Waubic—Geo. W. Kinnee.
Wells, Fred'k B.—D. T. Sullivan.
Westerian—Arthur Lefebore.
Western Star—B. J. Sloan.
Western States—A. J. McKay.
Westmount—F. Howell.
Weston, Chas.—C. C. Hanley.
Whitaker, Byron—E. Tremblay.
White & Friant (Bge.)—John R. Carr.
White, Peter—James Kennedy.
Wickwire, T. H.—William D. Montgomery.
Wickwire, T. H., Jr.—Jas. W. Montgomery.
Widener, P. A. B.—H. J. Regan.
Widlar, Francis—Ed. Bennett.
Wilpen—Ben Fox.
Wilkesbarre—J. H. McDonald.
Wilson, Capt. Thos.—Daniel Buie.
Wilson, Matthew—Thos. McCambridge.
Windsor—J. Doyle.
Winnipeg—Thomas Hefferman.
Winnipeg (Bge.)—M. Morcu.
Wisconsin—Geo. T. Laughlin.
Wissahickon—W. Delaney.
Wolf, Wm. H.—John D. Wanvig.
Wolvin, A. B.—John Tower.
Woods, Frank—Chas. B. Coates.
Wood, Joseph—A. J. Green.
Wright, A. P.—P. Larson.
Wright, A. W. (Bge.)—S. Williams.
Wyandotte—W. J. MacLean.

Yates, Harry—M. S. Peterson.
Yorkton—R. Alexander.
Yuma—J. J. Phillips.

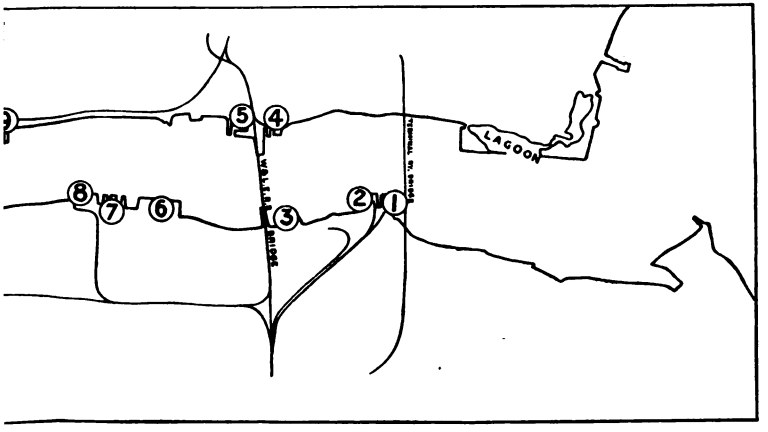
Zapotec (Bge.)—Adelard Monette.
Zenith City—Henry Walper.
Zimmerman, Eugene—F. B. Cody.



TOLEDO,

1. Asphalt Block Pavement Co.
16. C. H. and D. Ry. Co. (Elevator).
17. C. H. and D. Ry. Co. (Coal Dock).
18. C. H. and D. Ry. Co. (Ore Dock).
15. East Side Iron Elevator Co.
9. Empire Lumber Co.
3. Gillmore's Dry Dock.
10. Hocking Valley Co
2. Ironville Coal Doc
4. Kelsey & Freema
8. National Milling
5. National Pole Co.
11. Pennsylvania Doc

DRINK "ASHLAND" THE BEER T



HIO

ınd Ore Docks (New).

Lumber Dock.
(Elevator.)

(Old Hocking.)

19. Schenck Coal Dock, S. C.
12. Toledo Fuel Co.
6. Toledo Furnace Co.
7. Toledo Shipbuilding Co.
13. Toledo & Ohio Central Ore Dock.
14. Toledo & Ohio Central Coal Dock.

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IAT IS FAMOUS FOR ITS PURITY

APPOINTMENTS OF MASTERS OF LAKE VESSELS

List of Captains arranged according to names of vessels.

Abbott, Geo.—W. A. Sherman (Sch.).
Ackerman, J. C.—Pere Marquette 18.
Ackley, G. M.—Maricopa.
Aiken, R.—Detroit.
Alexander, R.—Yorkton.
Allen, M. G.—James Laughlin.
Allen, S. C.—Percival Roberts, Jr.
Ames, Geo.—Mariposa.
Ames, James N.—Marsala (Bge.).
Ames, W. J.—C. H. Little.
Anderson, C. A.—Ishpeming.
Anderson, M.—Edward A. Uhrig.
Anderson, Neil—Northern Wave.
Anderson, P. A.—Centurion.
Anderson, S.—Philetus Sawyer.
Anderson, S. V.—A. D. MacTier.
Ashley, W. A.—J. M. Jenks.
Atkinson, C. L.—Alpena.
Atkinson, George—F. B. Squire.
Autterson, C.—Chester A. Congdon.
Autterson, J. T.—Mary C. Elphicke.

Babb, Chas. W.—A. D. Davidson.
Babbitt, John—Howard M. Hanna, Jr.
Bahle, Esten—Pere Marquette.
Bailey, F. A.—James A. Farrell.
Baker, C. R.—Rufus P. Ranney.
Balfour, C. C.—B. F. Berry.
Ballentine, E. D.—Calumet.
Banker, G. H.—Howard L. Shaw.
Bansette, M.—Huron.
Barloe, F.—Glenlivet.
Barnard, E. F.—Manola.
Barrett, A.—Keywest.
Barry, Dan—J. S. Keefe.
Bassett, Jos.—Cadwell.
Bassett, R. G.—Paliki.
Bates, John—Delta (Bge.).
Batten, A. A.—Caribou.
Batten, Geo.—Rapids Prince.
Baxter, Wm.—Kearsarge.
Beall, A. R.—Canopus.
Beaupre, C.—India.
Beggs, Thomas—J. A. Donaldson.
Bell, George—Geo. F. Baker.
Bell, J. C.—James B. Eads.
Benham, C. A.—John Stanton.
Benham, Wm. P.—J. J. Sullivan.
Bennett, Chas.—John Crerar.
Bennett, Chas. D.—James W. Follette.
Bennett, Ed.—Francis Widlar.
Bennett, Thos.—Thomas Adams.
Benoit, L.—Melrose (Bge.).
Benson, C. G.—Marcia (Bge.).
Bertrand, John—St. Lawrence.
Betts, Wm.—Bon Ami.
Birkland, Theo.—J. I. Case (Bge.).
Birmingham, James—St. Joseph.
Bjork, Oscar—City of St. Joseph.
Blair, E. B.—North Star.
Blanchard, J.—Garden City.
Bloomfield, Wm.—Alexandria.

Blum, F.—Delaware.
Bohn, Ernest—Oak Leaf (Bge.).
Booth, J.—F. M. Knapp (Bge.).
Bostwick, Murray—Lehigh.
Boucher, Jos.—Laurentian.
Bouille, David—Coralia.
Bowen, B.—Compton.
Bowen, G. H.—Sir. Isaac Ellwood.
Boyce, C. S.—Empire City.
Boyce, H. M.—John Oades.
Boyle, R. H.—J. Frater Taylor.
Briggs, R.—Dayton (Bge.).
Bright, W. A.—Missouri.
Brines, J. M.—G. Watson French.
Brines, S.—A. Maitland (Bge.).
Brock, George B.—R. L. Agassiz.
Brock, Henry—Middlesex (Sch.).
Brookhyser, Geo.—Chicago.
Brown, C. D.—E. F. Holmes.
Brown, H.—J. H. Prentice.
Brown, J. A.—Agawa.
Brown, John—Sidney G. Thomas (Bge.).
Brown, Nelson—J. H. Reed.
Brown, W. C.—Hoover & Mason.
Brown, W. J.—Atikokan.
Brownell, E. H.—Ferd Schleisinger.
Brownell, Jos. A.—Hennepin.
Brownell, S.—Topeka.
Budd, M. A.—Vulcan.
Buie, Daniel—Capt. Thos. Wilson.
Bunting, Geo.—Keyvive.
Burns, John—J. P. Morgan.
Burns, R.—Alex. Anderson (Sch.).
Burns, Thomas—G. J. Grammer.
Burns, William—C. F. Moll.
Burrows, A. W.—Simon J. Murphy.
Burt, Geo.—Maunaloa.
Butler, Frank—H. Dahlke.
Cain, R. A.—Thomas Barlum.
Call, Richard—D. Z. Norton.
Callam, A. C.—Wm. E. Fitzgerald.
Campbell, A. L.—Hamonic.
Campbell, N.—R. Grant Morden.
Campbell, Walter—M. G. Hausler.
Canartney, W.—W. H. Sawyer.
Carloss, W. S.—Saxona.
Carlson, Carl—Roumania.
Carney, J.—Ontario.
Carr, John R.—White & Friant (Bge.).
Carr, W. H.—Ariel.
Carson, U.—Major.
Cartwright, P. M.—John Sherwin.
Cassin, James—Pawnee.
Chamberlain, Fred—A. Stewart (Bge.).
Chamberlain, M. K.—Thomas F. Cole.
Chamberlain, W.—Frank H. Peavey.
Chambers, A. P.—Wm. P. Palmer.
Chambers, J.—Racine.
Charlebois, F. M.—Ramona.
Chilson, F. B.—Chas. O. Jenkins.
Christie, D. B.—Brockville.
Christin, Emil—Robt. L. Fryer (Bge.).
Christopher, Sam—Herunnels.
Clarke, A. A.—Joseph Block.
Clarke, C. T.—Jay Gould.
Clarke, John C.—Delos W. Cooke.
Clegg, H. J.—Saxon.
Coates, Chas. B.—Frank Woods.
Cody, F. B.—Eugene Zimmerman.
Cody, U. S.—Wm. A. Paine.
Collins, Allen—Sir Wm. Fairbairn.
Conlin, T. N.—F. T. Heffelfinger.
Connelly, J. A.—Robt. Wallace.

Connolly, James—Andrews S. Upson.
Coons, C.—Simla.
Cottrell, Geo. L.—E. L. Fisher.
Cottrell, Jas.—Wm, A. Hazard.
Cottrell, W. F.—John A. Roebling (Bge.).
Cottrell, W. M.—Owego.
Cousins, Arthur—John Rolph.
Cousins, W. H.—Andaste.
Cowie, Andrew—Sirius.
Cowles, Wm. J.—Linden.
Craigie, A.—A. M. Byers.
Crawford, George B.—Northern Queen.
Crawford, Jas.—Aletha.
Crawford, J. G.—Pero Marquette 19.
Crawford, J. M.—Puritan.
Cronkhite, H.—Allegheny.
Cross, G. T.—Iocoma.
Crooker, D. M.—H. Steinbrenner.
Crowley, F. J.—Richard Trimble.
Cullen, F. J.—Wm. Edenborn.
Culp, H.—Crescent City.
Cummings, Geo. M.—North American.
Cunningham, James—Mohegan.
Cunningham, Wm.—W. D. Matthews.
Curran, Edwin—E. Gunnell.
Currie, John B.—Athabasca.

Daryaw, Chauncey—Ford River (Sch.).
Davidson, H.—Harvey D. Goulder.
Davis, Frank J.—Alberta.
Dawley, W. W.—J. E. Upson.
DeLand, W. A.—Ontario.
Delaney, W.—Wissahickon.
Demers, L. R.—Quebec.
Denner, J. H.—Isaac L. Bell.
DeNike, Lee—City of Mackinac II.
Dennis, H. S.—Duluth.
Deoust, I.—Dunmore (Bge.).
Desot, F.—Commodore (Bge.).
Detlefs, E.—A. A. Augustus.
Dick, Wm. H.—James Nasmyth (Bge.).
Dickson, A. R.—Pentland.
Dix, James—Glenmavis.
Doak, John A.—Chas. F. Neff.
Dodge, E. J.—Tourist.
Donahue, J.—Susquehanna.
Donner, Jas.—John P. Reiss.
Dority, F. A.—City of South Haven.
Dougherty, J.—Tionesta.
Doyle, J.—Windsor.
Dubrule, E. A.—Haskell.
Duddleson, J. M.—Wm. B. Davock.
Dugal, Jos.—Tadousac.
Duncanson, D. L.—Geo. L. Craig.
Dunn, P. H.—John Ericsson.
Dunn, Wm. R.—Onoko.
Dupuie, George—Cepheus.
Dupuis, F. A.—Champlain.
Durker, Henry—Saranac.

Eble, John—N. J. Nessen.
Edwardsen, Cris—Chas. Horn.
Ege, Gustave—Easton.
Eger, W. W.—W. L. Brown.
Ehrhart, J. W.—Robert L. Ireland.
Eligh, P.—Roberval.
Elliott, D.—Umbria.
Elliott, David—Kensington.
Elliott, Frank—Kalkaska.
Ellis, C. S.—Caldera.
Ellis, L. A.—O. E. Parks.
Elsey, D. B.—Taurus.
Emerson, S. K.—Venus.
Emig, T.—H. N. Jex.

England, R. W.—B. F. Jones.
Ennes, Ev.—Thos. Walters.
Ernest, Charles W.—Senator.
Evans, R. T.—Herman H. Hettler.
Evanson, E. A.—Lupus.
Ewart, John—Neibing.

Ferguson, Geo. H.—Sachem.
Ferguson, J. A.—Rensselaer.
Ferguson, Wm.—Wm. S. Mack.
Finucan, W. F.—Manitou.
Fisher, J.—Utica.
Fitch, Edward—E. H. Utley.
Flaherty, J.—C. F. Bielman, Jr. (Mail Boat).
Foote, A.—J. B. Ketcham II.
Foote, J. N.—Paipoonge.
Foote, R. D.—Noronic.
Forrest, G. F.—Mary A. McGregor.
Fournier, Chas.—A. C. Tuxbury (Bge.).
Fowler, C. C.—Arizona.
Fowler, Thos.—L. G. Powell.
Fox, A. J.—Put-In-Bay.
Fox, Ben—Wilpen.
Fox, Charles—Choctaw.
Fox, J. C.—Olcott.
Fox, Louis—Aurora (Bge.).
Francis, L. J.—W. D. Rees.
Franke, C. H.—Chas. S. Hebard.
Franklin, W. E.—Alabama.
Furey, C. S.—Mauch Chunk.
Fyrie, Harry—W. Arrow.

Gagne, Paul—Chinock.
Gagne, Wilfrid—St. Irenee.
Gallagher, B. J.—D. B. Meacham.
Galton, Chas. B.—Wm. C. Agnew.
Galton, J. W.—S. M. Clement.
Gardner, W. F.—A. W. Osborn.
Garey, J. C.—Cherokee.
Garlock, C. J.—Genoa (Bge.).
Garn, L. A.—Jessie Spalding.
Gegenheimer, C.—J. P. Morgan, Jr.
Geisendorfer, A.—Alva S. Chrisholm, Jr.
Gemmel, J. T.—Douglas Houghton.
Gentz, Otto—John Owen.
Gillies, D.—Rochester.
Girardin, D., Jr.—Harvey H. Brown.
Girardin, W. L.—Castalia.
Gonyaw, Capt.—Gettysburg.
Goodrow, Frank—Norwalk.
Goodrow, Fred—W. H. Truesdall.
Goodwin, Eugene—Grace Dormer.
Goodwin, Jas. F.—Martin Mullen.
Gordan, W. C.—W. C. Franz.
Gordon, Charles—Manda (Bge.).
Graham, Donald—W. L. Jenney (Bge.).
Graham, Geo.—Rosemount.
Grant, C. J.—Norman B. Ream.
Graves, A. R.—City of Cheboygan.
Green, A. J.—Joseph Wood.
Green, Peter—Barnum.
Greene, J. D.—Seneca.
Greenway, T. B.—A. M. Marshall.
Groulx, E.—Carleton.
Gue, Guy—Simon Langell.
Gunderson, Fred—Edward Buckley.
Gunderson, N. A.—Susie Chipman.
Gustofson, P.—A. Krupp (Bge.).

Hagan, Wm.—Leonard B. Miller.
Hagenson, B. T.—Ashtabula.
Haggerty, J.—C. J. Filmore (Bge.).

H-hn, C. P.—Peter Reiss.
Haight, C. M.—South American.
Hall, J. W.—N. C. Holland (Bge.).
Hamilton, W.—Hilton.
Hand, A. S.—Magna (Bge.).
Hanley, C. C.—Chas. Weston.
Hannell, W.—Morman Kelley (Bge.).
Hansen, A. C.—J. J. Hill.
Hansen, Hans—T. S. Christie.
Hanson, John T.—City of Berlin.
Harbottle, H. G.—Wm. E. Corey.
Hart, F. C.—A. W. Thompson (Bge.).
Hartman, A. H.—G. A. Flogg.
Hay, Peter—Northern Light.
Hayes, John—L. L. Barth.
Hayes, W. J.—Aloha (Bge.).
Hays, J. C.—Amazon.
Hayward, E.—City of Cleveland III.
Hayward, Geo. W.—Joe S. Morrow.
Healy, James—Lackawanna.
Hearn, John—Cascapedia.
Hearney, J. C.—G. A. Richardson.
Heaton, C. H.—Jas. P. Walsh.
Hebert, A.—Hamilton (Bge.).
Hector, Fred C.—H. G. Dalton.
Hefferman, James—Jacob T. Kopp.
Hefferman, T.—Lake Michigan.
Hefferman, Thomas—Winnipeg.
Henry, A. W.—Spokane.
Henry, Wm.—Chas. Lyon.
Herbert, James G.—A. E. Cornelius.
Hesson, J. R.—Corrigan.
Hetrick, Mike—Clinton.
Hill, Roland D.—City of Marquette.
Hill, Samuel—J. H. G. Hagarty.
Hill, W. E.—Maywood.
Higgie, J. F.—Louis Pahlow.
Hinckley, A. R.—Hinckley.
Hinckley, C. J.—America.
Hoag, W. S.—Geo. W. Perkins.
Holdridge, George—E. H. Gary.
Holmes, A. W.—Corvus.
Horne, George—Katie Brainard (Bge.).
Horne, Grant—Stephen C. Hall.
Honner, Geo.—Transfer.
Hourigan, D.—Adrian Iselin.
Howell, F.—Westmount.
Hoxie, H. L.—Pere Marquette 3.
Hudson, A.—Glenyon.
Hudson, J. H.—G. R. Crowe.
Hudson, W. C.—New Island Wanderer.
Humble, R. F.—Henry Phipps.
Humphrey, M. W.—Omega.
Hunt, W. J.—Alva C. Dinkey.
Huntoon, F. A.—Detroit.
Hyatt, John—City of St. Ignace.

Iler, W. C.—G. G. Crawford.

Jackson, James—D. O. Mills.
Jackson, John—Landsdown.
Jacques, Eli—C. E. Redfern (Bge.).
Jaenke, Herman—George N. Ort.
Jagenow, Wm.—J. K. Dimmick.
Jarrell, John J.—Caspian.
Jenkyn, A. M.—Odanah.
Jerome, W.—S. D. Warrirer (Bge.).
Jex, H. N.—Nelson Bloom (Bge.).
Jex, R. W.—E. T. Judd (Bge.).
Johnson, Carl—Interlaken (Bge.).
Johnson, Alfred—Americana.
Johnson, F. E.—Tyrone (Bge.).

Johnson, Frank H.—S. N. Parent.
Johnson, F. O.—Marion.
Johnson, G.—Minnesota.
Johnson, J. P.—Ashland (Bge.).
Johnston, Alex—J. C. Munro.
Johnston, Fred R.—Algonquin.
Jollie, Richard—E. J. Buffington.
Jones, H. L.—Merida.
Jones, J. F.—Shenango.
Jones, S. R.—Boston.
Jones, W. C.—James E. Davidson.
Jorgenson, Carl—D. G. Cutler (Bge.).
Joyce, John—G. K. Jackson (Bge.).

Keischgens, P.—Mingoe (Bge.).
Keller, A.—Ida Corning (Bge.).
Kelley, H. T.—Malietoa.
Kelley, J. W.—Anna C. Minch.
Kelley, Timothy—Maryland.
Kelley, Wm.—H. M. Pellatt.
Kendall, C. H.—Thousand Islander.
Kendall, D. A.—Wainwright.
Kendall, Geo. P.—Bryn Mawr (Bge.).
Kendall, H. J.—Harvey J. Kendall.
Kennedy, D.—Purcer.
Kennedy, D. A.—Iroquois.
Kennedy, James—Peter White.
Kennedy, John—Buffalo.
Kenyon, W. S.—State of New York.
Kiah, D. A.—Henry B. Hall.
Kilby, W. H.—Henry C. Frick.
Kinch, Geo.—Burlington.
Kinnee, Geo. W.—Waubic.
Kirkwood, W. J.—Steelton.
Knapp, R. H.—Lakeport.
Konkey, C. M.—James Watt.
Kuhn, John—M. Sicken.

LaFey, L. F.—M. T. Greene.
LaFleur, W. H.—Pere Marquette 17.
La Framboise, J.—W. B. Schiller.
La France, F. X.—Montreal.
Laing, Robt.—Inland.
Lake, Arthur—Forster W. Mitchell (Sch.).
Lalonde, O.—Huron.
Lalonde, Wm.—Quebec (Bge.).
Lampoh, Jos.—Matthew Andrews.
Landfair, B. M.—W. D. Crawford.
Landon, Wm.—Harry A. Berwind.
Lane, Geo.—Henry Cort.
Langell, Wm.—J. J. Turner.
Laroche, D. N.—Easton.
Larrabee, M. A.—Harvey.
Larson, Alex. L.—Ann Arbor 4.
Larson, Ivar—137 (Bge.).
Larson, John—Eddy Selwyn.
Larson, P.—A. P. Wright.
Laughlin, Geo. T.—Wisconsin.
Lavely, L. J.—Hemlock.
Laviolette, A.—Boucherville.
Lawrence, H.—Teutonia (Bge.).
Lawrence, Julius—Thomas Gaun.
Leath, E. C.—North Sea.
LeBeau, Sidney—Fred Mercur.
Leboeuf, C., Sr.—Selkirk (Bge.).
Leboeuf, Modeste—A. D. (Bge.).
Leboeuf, Samuel—F. A. Georger (Sch.).
Leduc, Leonel—H. Gladys (Bge.).
Leduc, T. L.—Augustus (Bge.).
Leduc, W.—Burma (Bge.).
Lefebore, Arthur—Westerian.
Lehan, J.—Conemaugh.
Leonard, R. M.—E. C. Pope.
Levifue, Wm.—Glenshee.
Levis, George—R. S. Warner.
Liddell, Wm.—Fairmont.

Light, F. W.—James B. Neilson.
Lightbody, John—City of Alpena II.
Lightbody, M.—Reserve.
Lindale, T.—Arizona.
Linton, Walter—Glenfinnan.
Lohr, Wm.—Bransford.
Lovesless, Fred—Rutland.
Lowes, J. H.—H. P. Bope.
Lozen, J. F.—J. B. Lozen (Bge.).
Lyman, C. A.—Milwaukee.
Lyons, H. S.—C. Russell Hubbard.
Lyons, James B.—Perseus.
Lyons, S. A.—J. H. Sheadle.

MacAuley, G. A.—James H. Hoyt.
MacDonald, J.—Sonoma.
MacFarlane, D.—Charles Heiden.
MacGregor, Wilson—Griffin.
MacIntosh, John E.—Frank C. Osborn.
MacIsaac, Neil—Pere Marquette 20.
MacLean, D.—Theodore Roosevelt.
MacLean, W. J.—Wyandotte.
McAuley, H.—M. E. Orton.
McCaffrey, B.—Schoolcraft.
McCallum, Geo.—Gen. O. M. Poe.
McCambridge, Thos.—Matthew Wilson.
McCanly, H. C.—Pere Marquette 5.
McCann, Hugh—Louis R. Davidson.
McCannel, James—Assiniboia.
McCarthy, James—Albert E. Stewart.
McCarty, Frank—Islander.
McCarty, J. C.—Sindbad.
McCarty, Jno. G.—Eugene C. Hart.
McCarty, Wm.—Chippewa.
McClinton, W. D.—Huron.
McCloud, A.—Brazil.
McClure, C. E.—Marshall F. Butters.
McCowan, Alex—Lakeland.
McCoy, N. J.—Manitou.
McDonald, J.—Schuylkill.
McDonald, J. H.—Wilkesbarre.
McDonald, M.—Isabella Sands (Bge.).
McDonald, W. B.—Indus.
McDonald, Wm—Maida (Bge.).
McDougall, C. L.—Gogebic.
McDougall, T. A.—D. G. Kerr.
McElroy, U. P.—S. F. B. Morse.
McEwen, H. W.—German.
McEwen, T.—D. P. Dobbins (Bge.).
McEwen, Thos.—Sophia Minch (Bge.).
McGarity, D. J.—Carolina.
McGarry, George—L. C. Hanna.
McGregor, A. E.—Polynesia.
McGuire, Wm.—John M. McKerchey.
McIntosh, J. L.—W. A. Rogers.
McIntosh, M. G.—J. S. Ashley.
McIntyre, A.—Thos. J. Drummond.
McIntyre, John—Manitoba.
McIntyre, P.—George A. Graham.
McKay, A. J.—Western States.
McKay, Dan—Eastern States.
McKenzie, A.—Mahoning.
McKenzie, E.—Juniata.
McKenzie, H.—Chas. S. Beattie.
McKenzie, K.—L. Edward Hines.
McKinley, James—W. B. Saunders (Tug).
McLachlan, D.—Stanstead.

McLean, J. C.—Lakewood.
McLeod, H. D.—Alex McDougall.
McLeod, J. P.—W. H. Dwyer.
McMann, T.—Toiler.
McMaugh, Archie A.—Bethlehem.
McPhee, Malcolm—Keewatin.
McQueen, W. S.—Ogdenburg.
McQuinn, Wm.—Melvin S. Bacon (Sch.).
McRae, Kenneth—Neptune.
Mackey, M. D.—Georgia.
Mackie, G.—Chickamauga (Bge.).
Mackin, W. J.—John Plankinton.
Madden, J. H.—E. L. Booth.
Maddich, J. W.—Dalhousie City.
Madigan, James A.—G. A. Tomlinson.
Magnes, D.—Pere Marquette 4.
Maguire, Norman—J. C. Ford.
Mahon, A. J.—John J. Barlum.
Mahon, Joseph E.—Alaska.
Maitland, H.—Edmonton.
Major, W. S.—O. D. Conger.
Mallette, P. A.—Constitution (Bge.).
Maloney, Geo. J.—Manila (Bge.).
Maltby, Wm.—Fred G. Hartwell.
Mandeville, A.—Louis Philippe.
Martin, J.—Octorara.
Martin, James—Keynor.
Martin, Michael—Pere Marquette 8.
Massey, Chester—Briton.
Massey, S. B.—D. R. Hanna.
Matson, S. W.—Victory.
Matteson, John—D. L. Filer (Bge.).
Matthews, Joseph—N. F. Leopold.
May, A. C.—H. B. Hawgood.
May, A. T.—Huron.
May, E. W.—R. W. England.
Meeker, S. E.—R. W. E. Bunsen.
Megarvey, Wm.—Powell Stackhouse.
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